2025–26

Faculty Booklet

College of Pharmacy,

King Saud University

I am pleased to present to you this booklet launched by the College's Vice Deanship for Graduate Studies and Scientific Research, which serves as a window showcasing a part of the pioneering research efforts carried out by the members of the College of Pharmacy at King Saud University. The College has firmly established its position as an advanced scientific and research environment that combines high-quality education with profound research output, contributing effectively to strengthening knowledge and serving the healthcare sector and the community.

These efforts—by the grace of God and through the dedication of the College's members—have culminated in a remarkable achievement: the College of Pharmacy has advanced to the 21st position globally in the 2024 Shanghai Ranking for Pharmacy and Pharmaceutical Sciences. This is an accomplishment we take great pride in, viewing it as evidence of the excellence of our researchers, the quality of our outcomes, and the College's influential presence on the global map of research and innovation.

This booklet comes as a reflection of this excellence, highlighting the College's distinguished research capabilities and advanced infrastructure that have enabled it to elevate the research field and develop scientific solutions that support the future of healthcare in the Kingdom and align with the aspirations of Vision 2030.

On this occasion, I extend my sincere thanks and appreciation to the Vice Deanship for Graduate Studies and Scientific Research for this outstanding effort, and to all faculty members, researchers, and graduate students for their dedication and creativity that drive this continuous progress. I ask Allah, the Almighty, to grant continued success and guidance, and that this blessed journey may carry on in strengthening the College's position and leadership.

Dr. Amer M. Alenazi

Dean, College of Pharmacy

Clinical Pharmacy Department

Last updated I Oct 2025

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Analytical and bioanalytical analysis; Pharmacokinetics; Pharmacogenetics and pharmacogenomics; Molecular biology; Molecular pharmacology; Herbal medicine; Clinical research

RESEARCH INTERESTS AND GOALS

- To develop thymoquinone as a new drug for sepsis, COVID19, and diabetes complications.
- To develop novel formulations for disease targeting.
- To understand mechanisms of herb-drug interactions.

CURRENT RESEARCH PROJECTS

Dr. Alkharfy is focusing on developing thymoquinone as a valuable option to treat many acute and chronuc inflammatory disorders including sepsis, COVID19 and diabetes complications.

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; LC-MS; Myograph; ELISA; Biochemical Analyzer

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.researchgate.net/scientificcontributions/16325251_Khalid_M_Alkharfy
- **Google Scholar:** https://scholar.google.com/citations?user=g3uVR-IAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacy administration; Pharmacy practice and healthcare; Pharmacy Policy

RESEARCH INTERESTS AND GOALS

Evaluate health system and pharmaceutical market

CURRENT RESEARCH PROJECTS

Work on evaluate the prices of orphan drug and it's impact on utilization.

METHODOLOGY/METHODS USED IN RESEARCH

Cost analysis; Markov model; simulation analysis; sensitivity analysis; cost effectiveness analysis; budget analysis; trend analysis

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AREAS OF EXPERTISE AND RESEARCH

Pharmacy practice and healthcare

RESEARCH INTERESTS AND GOALS

To unlock the complexity of Psychiatry and Neuro disorders by observing the current experience in the clinical practice, challenging existing ideas, exploring new approaches to assessment and treatment and improving patients quality of life.

CURRENT RESEARCH PROJECTS

- Drug utilization pattern among patients with autism spectrum disorders in Saudi Arabia
- Inflammation and Treatment-Resistant Depression from Clinical applications to Animal Study: A possible link?
- The impact of Anti psychotic medications on Male infertility in Saudi Arabia

METHODOLOGY/METHODS USED IN RESEARCH

Retrospective cohort study, ELISA technique

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AREAS OF EXPERTISE AND RESEARCH

Pharmacy practice and healthcare; Medication safety; Social pharmacy/ system design and human factors

RESEARCH INTERESTS AND GOALS

- To understand causes of error in healthcare.
- To design and improve healthcare delivery using human factors.
- To identify culture difference within the Saudi population and how it effects their medication taking behavior and design specific interventions targeted to Saudi population.
- Optimize patient outcomes through understanding their behavior.
- To improve pharmacy education in Saudi Arabia through identifying assessment techniques that can measure soft skills.

CURRENT RESEARCH PROJECTS

- Human factors and medical errors
- Patient engagement
- Social pharmacy

METHODOLOGY/METHODS USED IN RESEARCH

Qualitative study underpinned by theoretical approach and health psychology /mixed methods, Delphi

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmacy practice and healthcare; Medication safety

RESEARCH INTERESTS AND GOALS

- Improve community medication literacy
- Evaluate the effectiveness of of pharmaceutical care interventions/services
- Assessing community needs, preferences and perception of pharmaceutical care interventions (education program or new service)
- Assessing Pharmacovigilance knowledge

CURRENT RESEARCH PROJECTS

- Perception of Saudi Community and Community Pharmacists Towards the new Transition of Pharmaceutical Care Services
- Evaluation Of Saudi Community Pharmacies Immunization Services
- Knowledge, Attitude and Perception of Pharmacovigilance among healthcare students in Saudi Arabia
- Evaluating the Perception of Consumers Purchasing Medicinal products over The Internet in Saudi Arabia
- Saudi Pharmacists Communication Skills With Deaf and Hearing Impaired Patients - A Needs Assessment

METHODOLOGY/METHODS USED IN RESEARCH

Qualitative research; Quantitative and mixed method research

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** E-3311-2016 (ORCID 0000-0001-9666-5426)
- **Google Scholar:** https://scholar.google.nl/citations?user=duXPSTwAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacy practice and healthcare; Medication safety

RESEARCH INTERESTS AND GOALS

Increase the use of evidence from health economics and outcomes research in the decision making process in Saudi Arabia

CURRENT RESEARCH PROJECTS

- Patient reported outcomes
- Costing of certain health services
- Economic evaluation and Decision making

METHODOLOGY/METHODS USED IN RESEARCH

Systematic reviews; Questionnaire; Focus groups; Interviews; Delphi techniques; Discrete choice Experiment

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Q-7914-2016
- **Google Scholar:** https://scholar.google.com/citations?hl=en&pli=1&user=BkkeGa0AAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacy practice and healthcare

RESEARCH INTERESTS AND GOALS

- Investigate the cost-effectiveness of different interventions or services in healthcare to aid policy makers to make choices efficiently
- Determine the costs of different interventions or services in healthcare.
- Determine the clinical outcomes of different interventions or services in healthcare

CURRENT RESEARCH PROJECTS

- Systematic review of sources for effectiveness and costs data utilized in economic evaluations researches in Gulf Cooperation Council (GCC) countries.
- Barriers and facilitators to conducting economic evaluation studies in the Gulf Cooperation Council (GCC) countries: a survey of researchers
- Prevalence of adverse drug reactions of biologic agents in rheumatoid arthritis patients in Saudi Arabia
- Pattern of prescribing anticoagulants in elderly patients with atrial fibrillation

METHODOLOGY/METHODS USED IN RESEARCH

Systematic reviews; Cross-sectional studies; Cohort studies

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacoepidemiology; Pharmacy administration; Pharmacy practice and healthcare; Medication safety; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

Exploring the health outcomes of different health care interventions and examine their cost effectiveness in Saudi Arabia and the greater Middle East.

CURRENT RESEARCH PROJECTS

I am working on several research projects mainly on examining the cost effectiveness of highly priced medicines.

METHODOLOGY/METHODS USED IN RESEARCH

Dry lab

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoepidemiology; Pharmacy administration; Medication safety

RESEARCH INTERESTS AND GOALS

Increase patient safety

CURRENT RESEARCH PROJECTS

Social and behavioral pharmacy

METHODOLOGY/METHODS USED IN RESEARCH

Stata software

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacoepidemiology; Pharmacy administration; Pharmacy practice and healthcare; Medication safety

RESEARCH INTERESTS AND GOALS

- Guidelines management therapy
- Prevalence studies
- clinical studies

CURRENT RESEARCH PROJECTS

- Guidelines management therapy
- Prevalence studies
- Clinical studies

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AREAS OF EXPERTISE AND RESEARCH

Pharmacokinetics; Forensic medicine/toxicology; Toxicological risk assessment; Pharmacy administration; Pharmacy practice and healthcare; Medication safety ;Herbal medicine

RESEARCH INTERESTS AND GOALS

- To improve research arena in my country.
- To contribute to the knowledge of body in the world
- To improve pharmacy practice in my country Saudi Arabia
- To educate public about pharmacy profession
- To help improve the pharmacy education in my country
- To help solve medication problem in the health care system

CURRENT RESEARCH PROJECTS

- Improving the health care system in my country
- Helping patients to use their medications

METHODOLOGY/METHODS USED IN RESEARCH

Questionnaire, HPLC, MS/MS, UPLC MS/MS

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmacokinetics; Pharmacoepidemiology; Pharmacy practice and healthcare; Medication safety

RESEARCH INTERESTS AND GOALS

- To assess the efficacy and safety of a drug in management of disease
- To evaluate the use of drug in saudi popualtion
- to assess the knowledge , attitude and perception of participants about drug therapy/ diseases

CURRENT RESEARCH PROJECTS

- Evaluation of monotherapy with Ceftazidime or Trimethoprim-Sulfamethoxazole for treatment of Stenotrophomonas maltophilia Infections.
- Aspirin use in saudi arabia
- Low testosterone and clinical outcomes in Saudi men with type 2 diabetes mellitus : a retrospective study.
- Impact of a Multidisciplinary Education Program for chronic diseases with Persistent Self-Management Difficulties
- Students' attitude towards learning communication skills

METHODOLOGY/METHODS USED IN RESEARCH

A retrospective study; An explorative design; a quasi-experimental design; control group

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AREAS OF EXPERTISE AND RESEARCH

Pharmacogenetics and pharmacogenomics; Molecular biology; Clinical and experimental therapeutics

RESEARCH INTERESTS AND GOALS

- To reveal the impact of targeting Akt1 on the genetic profile of the advanced PCa & Colon cancers.
- To elucidate the role of Akt1 on EMT regulation in the advanced PCa and Colon cancers
- To characterize the role of Akt1 in maintaining endothelial-epithelial barrier integrity and regulating the inflammatory cascade in ARDS

CURRENT RESEARCH PROJECTS

My work is currently focused on the role of Akt1/miR-199a-5p/Let-7a-5p axis in mediating EMT in the advanced PCa and the potential use of miR-199a-5p and/or Let-7a-5p as a prognostic-metastatic biomarkers in PCa using urine samples.

METHODOLOGY/METHODS USED IN RESEARCH

MiRNAs isolation from human PCa samples and urine samples, qRT-PCR, IHC, Gel electrophoresis.

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AREAS OF EXPERTISE AND RESEARCH

Pharmacy practice and healthcare; Medication safety

RESEARCH INTERESTS AND GOALS

Achieve best medical practice

CURRENT RESEARCH PROJECTS

- Childhood asthma
- PTC function in Saudi Arabia
- Hospital pharmacy practice ASHP standard
- MS in Saudi Arabia
- Medication utilization evaluation on several drugs

METHODOLOGY/METHODS USED IN RESEARCH

Prospective study; Retrospective study; Cross sectional study; Case report

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoepidemiology; Medication safety; Clinical Trials Management

RESEARCH INTERESTS AND GOALS

Shaping the future of patient safety and the quality of medications in Saudi Arabia and the region.

CURRENT RESEARCH PROJECTS

Multiple research projects related to patients safety, medication safety and clinical trials management and quality improvement.

METHODOLOGY/METHODS USED IN RESEARCH

Quantitative research; systematic review

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmacy administration; Pharmacy practice and healthcare; Pharmacy Education and Pharmacy training

RESEARCH INTERESTS AND GOALS

- Improve the quality of care for critical ill patients
- Improve pharmacy education and training

CURRENT RESEARCH PROJECTS

Exploring motivation factors and barriers for pursuing postgraduate education in pharmacy practice

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

- Allocating health care resources
- Maximize benefits of any interventions with minimize associated costs

CURRENT RESEARCH PROJECTS

Currently, Dr.Hamoud, analyzing and investigating pharmacoeconomics studies conducted in Saudi Arabia

METHODOLOGY/METHODS USED IN RESEARCH

Satistical methods in health economics; Cost effectiveness modeling methods; Mapping Methodology

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AREAS OF EXPERTISE AND RESEARCH

Pharmacoepidemiology; Pharmacy administration; Pharmacy practice and healthcare; Medication safety; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

Understand and discover more about diabetes and other chronic diseases managements

CURRENT RESEARCH PROJECTS

Several studies to understand the DM treatment differences among Saudis and all related factors

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmacokinetics; Pharmacy practice and healthcare; Medication safety

RESEARCH INTERESTS AND GOALS

All aspects of applied pharmay

CURRENT RESEARCH PROJECTS

Groups research

METHODOLOGY/METHODS USED IN RESEARCH

Dry lab

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety; Pharmacoepidemiology

RESEARCH INTERESTS AND GOALS

- Drug and medication safety
- Medication errors
- Pharmacoepidemiology
- Pharmacy practice

METHODOLOGY/METHODS USED IN RESEARCH

Academic writing; Conducting systematic reviews using Covidence and Rayyan software tools; Managing bibliographies with reference manager; Manuscripts peer review; Research project management

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/E-7668-2019
- **ORCID:** https://orcid.org/0000-0001-7274-5704
- **Google Scholar:** https://scholar.google.com/citations?user=ljfN16EAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Neuropharmacology; Digital Health; Decision Support Systems

RESEARCH INTERESTS AND GOALS

- Patient support and empowerment using digital treatment decision aids (explore, evaluate, build and update)
- Exploring and guide AI use in health education
- Therapeutic outcomes for MS patients

CURRENT RESEARCH PROJECTS

- AI use by pharmacy college undergrads
- Validity testing of GPTZero detection tool on college assignments
- Long term outcomes of MS patients on different treatmnt modalities

METHODOLOGY/METHODS USED IN RESEARCH

Qualitative methods (interviews, focus groups, think aloud, UX); Quantitative research; Mixed methods

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):**
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AREAS OF EXPERTISE AND RESEARCH

Medication safety; Pharmacy regulatory affairs; Pharmacy education; Interprofessional education

RESEARCH INTERESTS AND GOALS

- Pharmacy education
- Inteprofessional education assessment

METHODOLOGY/METHODS USED IN RESEARCH

Quantitative and qualitative research

LINK TO PUBLISHED WORK

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College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmacoepidemiology

RESEARCH INTERESTS AND GOALS

- Pharmacokinetics
- Pharmacogenetics

CURRENT RESEARCH PROJECTS

Long Course Versus Short Course of Carbapenems in Hospitalized Patients with UTI Caused by ESBL-Producing Bacteria

METHODOLOGY/METHODS USED IN RESEARCH

DNA extraction; DNA fragmentation; PCR; Variant analysis

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmaceutical/health outcomes; Pharmacoeconomics; Pharmacoepidemiology

RESEARCH INTERESTS AND GOALS

- Chronic conditions epidemiology
- Population Health Management

CURRENT RESEARCH PROJECTS

- The association between Antidiabetics and the risk of Dementia among Type 2 Diabetes Patients
- The prevalence of Diabetes in the Kingdom of Saudi Arabia: A National study based on real world Data

METHODOLOGY/METHODS USED IN RESEARCH

Instrumental variable analysis; Propensity scoring; Advance Machine learning

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** R-7589-2017
- **ORCID:** https://orcid.org/0000-0002-5114-1343
- **Google Scholar:** https://scholar.google.com/citations?user=1p6HlQYAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmaceutical/health outcomes

RESEARCH INTERESTS AND GOALS

- Enhancement of Emergency Pharmacotherapeutic Strategies
- Advancement of Hospital and Community Pharmacy Practices

CURRENT RESEARCH PROJECTS

- Emergency Management of Adult Status Epilepticus in KSA
- Emergency Management of Pediatric Status Epilepticus in KSA
- Emergency DKA Management in KSA

METHODOLOGY/METHODS USED IN RESEARCH

Retrospective & Prospective cohort & observational clinical studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/KBC-3805-2024
- **ORCID:** https://orcid.org/my-orcid?orcid=0000-0003-3306-0387
- **Google Scholar:** https://scholar.google.com/citations?user=g23zoZsAAAAJ&hl=ar

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy

RESEARCH INTERESTS AND GOALS

Infectious diseases pharmacotherapy with specific focus on:

- Treatment of drug-resistant Gram-positive and Gram-negative infections
- The use of long acting lipoglycopeptide for the treatment of osteoarticular infections
- The use of novel agents for the treatment of difficult-to-treat resistant (DTR) pseudomonas infections.

CURRENT RESEARCH PROJECTS

- Daptomycin dosing based on adjusted body weight in obese patients versus actual body weight: A multicentre cohort study
- Dalbavancin for the treatment of bone and joint infections: a meta-analysis
- Treatment of infection caused by the animal commensal pathogen, Staphylococcus simulans

METHODOLOGY/METHODS USED IN RESEARCH

Cohort studies and Meta-analyses

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAX-3860-2021
- **ORCID:** https://orcid.org/0000-0003-1508-8693
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AREAS OF EXPERTISE AND RESEARCH

Pharmacoeconomics; Pharmacoepidemiology; Health Outcomes

RESEARCH INTERESTS AND GOALS

- Epidemiology
- Health outcomes
- Cost analysis

CURRENT RESEARCH PROJECTS

- The Impact of Anxiety and Depression on Health-Related Quality of Life among Patients with Chronic Illnesses
- Potentially inappropriate prescribing for olderly with mental illnesses
- Burnout and Depressive Symptoms in Healthcare Professionals
- Healthcare Expenditures Associated With Comorbid Anxiety and Depression Among Adults With Chronic Illnesses

METHODOLOGY/METHODS USED IN RESEARCH

Proficient in handling Large healthcare data (Registry data, Claims Databases, electronic medical data, etc.) using Statistical Analysis Software (SAS) and STATA

LINK TO PUBLISHED WORK

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety; Pharmaceutical/health outcomes; Pharmacoepidemiology; Pharmacy administration

RESEARCH INTERESTS AND GOALS

- Pharmacoepidemiology research
- Medication safety & drug use evaluation
- Pharmacy practice in general & assessment of pharmacy services

CURRENT RESEARCH PROJECTS

- Awareness of male lung cancer
- Assessment of medication delivery services
- Assessment of students cultural competence

METHODOLOGY/METHODS USED IN RESEARCH

Big data analysis/biostatistics; Survey designing & analysis; Academic writing

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmaceutical/health outcomes; Pharmacoepidemiology; Pharmacy administration; Pharmacy regulatory affairs; Medication Safety and Medication errors

RESEARCH INTERESTS AND GOALS

- Safety of medication use
- Pharmacovigilance
- Errors of prescribing
- Non-formulary medication use
- Off-label medication use

CURRENT RESEARCH PROJECTS

- Use of the FAERS dataset to compare ADRs of cardiovascular events caused by calcimimetic drugs
- Systematic review of the literature on side effects of calcimimetic agents

METHODOLOGY/METHODS USED IN RESEARCH

Systematic review of literature Analysis of prescriptions prospectively and retrospectively

LINK TO PUBLISHED WORK

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Clinical Pharmacy; Computational biology; Drug discovery and computational modeling; Herbal medicine; Molecular biology; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Pharmaceutical biotechnology; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

My research interests span a variety of critical areas within the field of pharmacy and pharmacology. I am deeply engaged in preclinical drug development, focusing on the exploration of novel therapeutic agents, assessing their efficacy, safety, and mechanisms of action, with a keen interest in bridging the gap between laboratory research and clinical application.

CURRENT RESEARCH PROJECTS

- Cardiovascular Pharmacology of Natural Products
- Pharmacokinetics
- Various disease animal models

METHODOLOGY/METHODS USED IN RESEARCH

Myography; Chromatography (UPLC/HPLC); Animal Modelling

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical/health outcomes; Pharmacoeconomics; Health Technology Assessment

RESEARCH INTERESTS AND GOALS

- Health Technology Assessment for pharmaceuticals, medical devices, diagnostics and surgery (methods, processes, and value frameworks)
- Managed Entry Agreements
- Innovative Payment Models for Health Technologies
- Pricing and Reimbursement
- Market Access
- Health Economics
- Economic Evaluation (advanced and de novo modeling)
- Behavioral Economics
- Health Policy/Pharmaceutical Policy
- Value Based Procurement
- Value Based Healthcare

CURRENT RESEARCH PROJECTS

My current research portfolio centers on addressing complex challenges in healthcare economics, HTA, and health systems. Key areas of research include economic models, pharmaceutical policy, impact assessment, system dynamic modelling, pricing and reimbursement.

METHODOLOGY/METHODS USED IN RESEARCH

Economic Modelling; System Dynamic Modelling; Mixed Methods; Qualitative Research.

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0002-0765-0466
- **Google Scholar:** https://scholar.google.com/citations?user=olbk9woAAAAJ&hl=en

DR. SALHA JOKHAB

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety

RESEARCH INTERESTS AND GOALS

- Medication safety and clinical research, with a particular focus on anticoagulation
- Translation and validation of research questionnaires
- Patient-reported outcome including medication adherence, satisfaction with treatment, and quality of life
- Pharmacogenomics of warfarin and direct oral anticoagulants.

METHODOLOGY/METHODS USED IN RESEARCH

DNA extraction and TaqMan genotyping assays; Translation and validation of research questionnaires

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AREAS OF EXPERTISE AND RESEARCH

Medication safety; Pharmaceutical quality control; Pharmacoepidemiology; Pharmacy practice

RESEARCH INTERESTS AND GOALS

- Medication safety
- Drug related problem
- Medication errors
- Pharmacy practice
- Adherence
- Pharmacy education

CURRENT RESEARCH PROJECTS

- Medication errors of total parental nutrition
- Medication safety prioritisation research
- MRP of DOACs in a hospital setting at KSA

METHODOLOGY/METHODS USED IN RESEARCH

Qualitative; Quantitative; Mixed methods approach

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0003-3325-4413

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AREAS OF EXPERTISE AND RESEARCH

Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

Research interests are in the area of utilizing pharmacokinetic/pharmacodynamic (PK/PD) modeling, and physiologically based pharmacokinetic (PBPK) modeling and simulation tools (Phoenix WinNonlin, Simcyp, Gastroplus, etc.) to analyze the preclinical and clinical PK/PD data, predict PK profile and exposure, and explore drug-drug interaction potential. Development and experimental validation of pharmacokinetic/pharmacodynamic (PK/PD) relationships to optimize drug design, development, and therapeutic application of anti-cancer compounds. Development of population PK/PD models for several drugs to characterize the main clinical pharmacokinetics and pharmacodynamics parameters in Saudi Population.

CURRENT RESEARCH PROJECTS

- PK/PD of tyrosine kinase inhibitors in CML patients
- Effect of bariatric surgery on DOACs
- Effect of intraperitoneal dialysis of PK of antibiotics

METHODOLOGY/METHODS USED IN RESEARCH

Observational PK studies; PBPK; Population PK

LINK TO PUBLISHED WORK

- **ORCID:** 238398187
- **Google Scholar:** https://scholar.google.com/citations?user=D-8h288AAAAJ&hl=en

DR. BASMA YOUSEF KENTAB

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medicines optimisation; Delivery of pharmacy services

RESEARCH INTERESTS AND GOALS

- Delivery of pharmacy services in ambulatory care settings
- Medicines optimisation in ambulatory care settings
- Medicines optimisation in patients with disability
- Development of pharmacy-related interventions

CURRENT RESEARCH PROJECTS

- Online pharmacy regulations in Saudi Arabia
- Medicines optimisation in visually impaired patients

METHODOLOGY/METHODS USED IN RESEARCH

Qualitative Methodologies; Theoretical Domains Framework-based research; Quantitative Methodologies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/52545655
- **ORCID:** https://orcid.org/0000-0002-7779-8300
- **Google Scholar:** https://scholar.google.com/citations?user=sfbNo6sAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Clinical Pharmacy; Medication safety; Molecular biology; Pharmacogenetics and pharmacogenomics; Precision medicine

RESEARCH INTERESTS AND GOALS

Pharmacogenomics & Pharmaco-Omics – Exploring genetic and multi-omics influences on drug response; Precision & Personalized Medicine – Tailoring treatments based on genetic and environmental factors; Epigenetics & Drug Response – Investigating the role of epigenetics in inter-individual variability; Biostatistics & Data Science in Pharmacogenomics – Developing intuitive approaches to complex data analysis; AI & Machine Learning in Healthcare – Leveraging AI/ML for predictive modeling and decision support; Automation in Health Services – Enhancing hospital pharmacy workflows through automation; Clinical Applications of Pharmacogenetics – Implementing genetic insights into clinical practice; Education & Training in Pharmacogenomics – Simplifying complex concepts for better student understanding

CURRENT RESEARCH PROJECTS

Pharmacogenomics of Anti-Cancer Medications – Investigating genetic variations affecting drug efficacy and toxicity in oncology; PGx-Guided Chemotherapy Optimization – Personalizing chemotherapy regimens based on genetic markers; Epigenetics & Drug Resistance in Cancer – Exploring how epigenetic modifications influence resistance to anti-cancer drugs; AI & Machine Learning in Oncology PGx. For more information please visit: https://faculty.ksu.edu.sa/en/aazher

METHODOLOGY/METHODS USED IN RESEARCH

Pharmacogenomics (PGx) Analysis – Identifying genetic variants affecting drug response; Multi-Omics Data Integration – Combining genomics, epigenomics, transcriptomics, and proteomics for drug research; AI & Machine Learning in PGx – Developing predictive models for drug efficacy and toxicity

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABC-7803-2020
- **ORCID:** https://orcid.org/0000-0001-6419-0446

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmaceutical/health outcomes; Medication Adherence; Mixed Method Research

RESEARCH INTERESTS AND GOALS

- Development of a medication adherence education curriculum for healthcare professionals, patients, university students, and the community
- Creation and validation of a medication adherence scale for Arabic and Saudi populations across various therapeutic areas
- Exploration of mixed-method research approaches to identify barriers to medication adherence and enhance pharmacy practice
- Application of pharmacokinetics principles to personalize medication regimens and improve adherence
- Collaboration with interdisciplinary teams to enhance medication safety and adherence strategies in clinical settings.

CURRENT RESEARCH PROJECTS

- Qualitatively informed Diabetes medication adherence questionnaire
- Development and Validation
- ASMA Study

METHODOLOGY/METHODS USED IN RESEARCH

Mixed-methods research design that integrates both qualitative and quantitative techniques; UPLC MS/MS Therapeutic Drug Monitoring

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAZ-4305-2020
- **ORCID:** 0000-0002-7603-1642
- **Google Scholar:** https://scholar.google.com/citations?user=fqoHnasAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmaceutical/health outcomes; Pharmacoeconomics

RESEARCH INTERESTS AND GOALS

- Cost-effectiveness analysis
- Patients reported outcomes measurement
- Medication adherence interventions
- Quality of community pharmacy counselling

CURRENT RESEARCH PROJECTS

- Use of health economics in reimbursement
- Development of intervention to enhance medication adherence

METHODOLOGY/METHODS USED IN RESEARCH

Systematic reviews; Economic evaluation; Patients reported outcomes measurement; Patient preference measurement (Discrete Choice Experiments); Simulated patient; Qualitative techniques (interviews, focus groups)

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/Q-7914-2016
- **ORCID:** https://orcid.org/0000-0003-0571-7230
- **Google Scholar:** https://scholar.google.com/citations?user=BkkeGa0AAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Forensic medicine/toxicology; Medication safety; Theranostics and imaging; Pharmacy practice; chronic diseases; training and education

RESEARCH INTERESTS AND GOALS

- Contribute to Pharmacy Practice and Medication Management
- Clinical Guidelines and Best Practices
- Pharmacy and Interdisciplinary
- Education and Training

CURRENT RESEARCH PROJECTS

- Validation of ASCVD risk assessment tools in Saudi Population
- Impact of Initiating SGLT2i on concomitant medications doses
- Enoxaparin Prophylactic Regimens in Pediatric Patients: Practices and Outcomes

METHODOLOGY/METHODS USED IN RESEARCH

Systematic reviews/meta-analysis (Cochrane and non-Cochrane); Cross-sectional studies; Randomized Study; Guideline adaptation; Retrospective studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAL-1590-2020
- **ORCID:** https://orcid.org/0000-0001-9568-9311
- **Google Scholar:** https://scholar.google.com/citations?pli=1&authuser=1&user=B20JM2kAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety; Pharmaceutical/health outcomes; Pharmacoeconomics; Pharmacoepidemiology; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

As a researcher, I am deeply committed to understanding and addressing the main life and health needs of the public. My work is driven by a passion for improving the well-being of individuals and communities, particularly those facing significant challenges in accessing healthcare and achieving optimal health outcomes. I believe that by studying and addressing the root causes of health and social disparities, we can create more equitable and effective healthcare systems. My research approach is interdisciplinary, drawing on insights from public health, sociology, and other fields to gain a comprehensive understanding of the complex factors influencing health outcomes. Through my work, I seek to not only identify the main life and health needs of the public but also to develop innovative strategies and interventions to address these needs. By collaborating with communities, healthcare providers, and policymakers, I aim to translate research findings into tangible improvements in health and well-being for all individuals in the Saudi society. Overall, my goal as a researcher is to contribute to the development of evidence-based policies and interventions that promote health equity and improve the quality of life for individuals and communities in Saudi Arabia and worldwide.

CURRENT RESEARCH PROJECTS

Many projects are ongoing in the fields of cardiovascular diseases, diabetes and its complications, and quality of life

METHODOLOGY/METHODS USED IN RESEARCH

Observational studies; Clinical Trials; Cross-sectional studies; Secondary Data Analyses; Systematic review and Meta-analysis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAR-6553-2020
- **ORCID:** https://orcid.org/0000-0002-3792-4106
- **Google Scholar:** https://scholar.google.com/citations?user=px4gqbwAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Wellbeing; Health/Medical Education

RESEARCH INTERESTS AND GOALS

- Heart Failure Managment Optimization
- Antithrombotic tailored uses
- Chronic Cardiovascular Diseases prevention and management
- Holistic Wellbeing and longevity
- Health/Medical Education
- Advancement and interdisciplinary approaches

CURRENT RESEARCH PROJECTS

- Multi-center heart failure GDMT management
- Antithrombotic therapy peri-CABG
- Tailored INR targets post valve replacement in Saudi
- Biomarkers for holistic wellbeing and BioDigital Twin
- Interdesciplinary education and practice in Saudi

METHODOLOGY/METHODS USED IN RESEARCH

Cohort Studies; Clinical Trials; Meta-analyses; Cross Sectional & Survey-based Studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/HMW-1577-2023
- **ORCID:** https://orcid.org/my-orcid?orcid=0000-0002-8655-7410
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=BI0f_H0AAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical/health outcomes; Pharmacoeconomics

RESEARCH INTERESTS AND GOALS

- Patient outcomes
- Evidence based medicine
- Health economics

CURRENT RESEARCH PROJECTS

Cost of illness studies for different condition

METHODOLOGY/METHODS USED IN RESEARCH

Retrospective cohort studies

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0002-9307-2913
- **Google Scholar:** https://scholar.google.com/citations?user=kw1XMMAAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy

RESEARCH INTERESTS AND GOALS

- Pharmacy Practice
- Pharmaceutical Education
- Clinical Therapeutics

CURRENT RESEARCH PROJECTS

- Obesity assessment and prevalence
- Cybersecurity culture among healthcare college students

METHODOLOGY/METHODS USED IN RESEARCH

Survey studies; Cohort studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Web of Science ResearcherIDAAY-3782-2020
- **ORCID:** https://orcid.org/0000-0002-7988-2717
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=zVqRhooAAAAJ

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CONTACT

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmaceutical/health outcomes; Pharmacoepidemiology; Clinical Trials; Clinical research on complementary medicine (Nutraceuticals), and clinical nutrition

RESEARCH INTERESTS AND GOALS

- The discovery of Novel Biomarkers (Diagnostic Markers) for Cardio-Metabolic Diseases
- Type 2 Diabetes and obesity prevention and management
- Clinical nutrition and Complementary medicine (Nutraceuticals)
- Gut microbiome interconnection with multiple organ system (Brain, heart, liver, and kidneys)

CURRENT RESEARCH PROJECTS

- Dietary supplements in Cancer patients
- Semaglutide clinical effectiveness and compliance in type 2 diabetes patients
- Evaluation of Parental Nutrition use in surgical and cancer patients

METHODOLOGY/METHODS USED IN RESEARCH

All study designs (observational, analytical, and systematic reviews and meta-analysis); Data analysis using SPSS; Liquid chromatography (UPLC-MS/MS).

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/J-9656-2019
- **ORCID:** https://orcid.org/0000-0003-4051-4121
- **Google Scholar:** https://scholar.google.com/citations?user=vmUwr-oAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy

RESEARCH INTERESTS AND GOALS

- Patient outcome
- Pharmacy practice

CURRENT RESEARCH PROJECTS

- Accuracy of chatGPT in patient information
- Online pharmacy
- Loyalty to community pharmacy

METHODOLOGY/METHODS USED IN RESEARCH

Observational cross-sectional studies; survey building

LINK TO PUBLISHED WORK

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College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

Clinical pharmacy

CURRENT RESEARCH PROJECTS

Clinical pharmacist interventions

METHODOLOGY/METHODS USED IN RESEARCH

Quantitative Qualitative; Cross sectional Reviews

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=FAxhNLMAAAAJ&hl=en&oi=ao

DR. HAYA M.

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KSU webpage: none

AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety; Pharmaceutical/health outcomes

RESEARCH INTERESTS AND GOALS

Rheumatology and pharmaceutical education

CURRENT RESEARCH PROJECTS

Patient reported outcomes

METHODOLOGY/METHODS USED IN RESEARCH

Qualitative

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www-webofscience-com.sdl.idm.oclc.org/wos/author/record/GZN-1604-2022
- **ORCID:** https://orcid.org/my-orcid?orcid=0000-0001-8531-556X

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety; Pharmaceutical/health outcome; Pharmacoepidemiology

RESEARCH INTERESTS AND GOALS

- Cancer Pharmacotherapy: Focus on therapeutic drug monitoring, chemotherapy-induced nausea and vomiting, and the pharmacokinetics of cancer drugs
- Clinical Pharmacy Practice: Evaluation of drug information sources, adherence to clinical guidelines, and the role of clinical pharmacists in healthcare settings
- Public Health and Epidemiology: Studies on the impact of cancer on patients' quality of life, out-of-pocket expenses, and the use of complementary and alternative medicine
- Medication Safety: Research on medication safety in oncology settings, deprescribing, and polypharmacy
- Pharmacovigilance: Practices and perspectives of healthcare providers in monitoring drug safety, particularly in oncology
- Agism

CURRENT RESEARCH PROJECTS

- Chemotherapy safety
- Cancer treatment information on the internet
- Use of pharmacogenetic testing in Saudi Arabia
- Clinical trial trends in cancer research

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/J-9743-2019
- **ORCID:** https://orcid.org/0000-0001-6442-1646
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=8JIK398AAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Medication safety; Pharmaceutical/health outcomes; Pharmacoeconomics; Pharmacoepidemiology

RESEARCH INTERESTS AND GOALS

- Pharmacovigilance
- Medication safety
- Patient reported outcomes
- Medication utilization

CURRENT RESEARCH PROJECTS

- CMS data for medication utilization
- FAERS data analysis for medication safety

METHODOLOGY/METHODS USED IN RESEARCH

Big data analysis; Bayesian confidence propagation neural network; Qualitative/quantitative methods

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0001-8504-3779
- **Google Scholar:** https://scholar.google.com/citations?user=r2akvVgAAAAJ&hl=en

Pharmaceutical Chemistry Department

Last updated I Oct 2025

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Analytical and bioanalytical analysis; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

Analysis of Pharmaceutical compounds using various techniques including: HPLC, LC/MS, UV-Vis spectrophotometry, Spectrofluorometry and Electrophoresis.

CURRENT RESEARCH PROJECTS

Separation of Multi-chiral drugs by using different mobile phases and three chiral stationary phases.

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; electrophoresis; UV-VIS spectrophotometry

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis

RESEARCH INTERESTS AND GOALS

- New synthesized compounds and different biological evaluations combined with structure-activity-relationship study.
- Mechanistic study of new synthesized compounds by enzymes assay and molecular docking Method.

CURRENT RESEARCH PROJECTS

Currently, Adel S. El-Azab and co-workers used the anthranilic acid for synthesis of new quinazoline derivatives for in vitro antitumor evaluations containing sulfonamide moiety with kinase inhibitor assays.

METHODOLOGY/METHODS USED IN RESEARCH

Synthesis and biologically screening of new active molecules with structure assignment of these new compounds by different spectroscopic methods such as ; x-ray, 1H NMR, 13C NMR, IR and Mass spectroscopy.

LINK TO PUBLISHED WORK

- **ResearcherID(WoS/Publons):**https://app-webofknowledge-com.sdl.idm.oclc.org/author/#/record/399694?lang=en_US
- **Google Scholar:** https://scholar.google.com/citations?hl=ar&user=lcXXR6gAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Analytical and bioanalytical analysis

RESEARCH INTERESTS AND GOALS

To discover novel anti-cancer drugs

CURRENT RESEARCH PROJECTS

Currently, I am working on Synthesis, Biological activity (Antimicrobial/Anti-proliferate/Topo-isomerase inhibitory) followed by Metabolic Study of Natural and Unnatural Biological Active Organic Molecules

METHODOLOGY/METHODS USED IN RESEARCH

Organic Synthesis Equipments; IR; UV; NMR; LC-MS (Ion-Trap / Triple Quad); MALDI Orbitrap

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** B-5442-2012
- **Google Scholar:** https://scholar.google.com/citations?user=JeKXZjIAAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Analytical and bioanalytical analysis; Pharmaceutical biotechnology; Pharmaceutical microbiology; Molecular biology; Computational biology

RESEARCH INTERESTS AND GOALS

A medicinal chemist and molecular biologist with a deep knowledge in the genetics, biochemistry, enzymology and chemical biology of the pseudoglycosyltransferases (PsGTs) which plays an important role in the biosynthesis of antivirals, antidiabetic and antimicrobial agents.

CURRENT RESEARCH PROJECTS

The synthesis and exploring of new drugs, deciphering the secondary metabolism of many Streptomyces species, genetic engineering strategies for producing carbohydrate mimetic, redesigning glycoconjugates, and creating new bioactive natural products.

METHODOLOGY/METHODS USED IN RESEARCH

Design and synthesisl; molecular modeling; analysis; microbiology

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

Ensure drug stability and estimation of drug concentration in dosage form and plasma

CURRENT RESEARCH PROJECTS

- Currently Dr Hany Darwish work centers on development of new analytical techniques for determination of anticancer drugs in urine and plasma.
- Also estimation of metabolic profile for the new FDA approved drugs

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; Sprctroflurimetry; Spectrophotometry

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Analytical and bioanalytical analysis

RESEARCH INTERESTS AND GOALS

To help find new drugs that works more potency with less side effects.

METHODOLOGY/METHODS USED IN RESEARCH

Spectrophotmeter; NMR; Infrared

DR. MOHAMED MOHMOUD HEFNAWY

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control; Pharmacokinetics

RESEARCH INTERESTS AND GOALS

- To separate and determine of anticancer drug combinations by LC-MS/MS technique.
- Enantioanalysis of cardiovascular drugs in biolological matrices by LC-MS/MS and HPLC.
- To explore pharmacokinetic parameters of the anticancer drugs in Wistar rats.

CURRENT RESEARCH PROJECTS

Dr. Hefnawy work on analysis of drug combinations used for the treatment of melanoma and acute myeloid leukemia in biological fluids using capillary electrophoresis and liquid chromatographic techniques

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; LC-MS/MS; Capillary electrophoresis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://orcid.org/0000-0002-9152-0735

College of Pharmacy Faculty Booklet

DR. MOHAMMED MATER ALANAZI

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis

RESEARCH INTERESTS AND GOALS

Investigations of molecular mechanisms of action, rational design, synthesis of potential small molecules acting on enzymes and receptors associated with cancer development.

CURRENT RESEARCH PROJECTS

Design, synthesis and biological evaluation of hybrid molecules containing quinazoline and different anticancer scaffolds to develop new anticancer agents with dual modes of actions.

METHODOLOGY/METHODS USED IN RESEARCH

Molecular modeling; Virtual screening; Insilico drug synthesis; HPLC; LC-MS; Cell culture; Enzymatic assays; Gel electrophoresis

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=eRTMQ54AAAAJ&hl=en&oi=sra

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Analytical and bioanalytical analysis; Molecular biophysics; Molecular biology; Computational biology; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.); Forensic medicine/toxicology; Molecular toxicology; Molecular pharmacology; Phytochemistry

RESEARCH INTERESTS AND GOALS

Discover, design and synthesis different therapeutic agent to treat different disease like cancer,diabetic and hypertension. By using rational drug design, binding site identification and Drug targets.

CURRENT RESEARCH PROJECTS

- Screen for Potential Inhibitor For Protease Enzyme Using Crystal Structure of COVID-19 Virus.
- A protease is an enzyme that catalyzes and increase the breakdown of proteins into smaller polypeptides or single amino acids, protease is essential for viral replications, consequently, it is an attractive target that provides a potentially effective inhibitor for the active site of COVID-19 virus.

METHODOLOGY/METHODS USED IN RESEARCH

Computer-aided drug design; Structure-based drug design; Drug targets; Binding site identification; Scoring functions; Molecular emission spectrophotometry; Fluorescence and phosphorescence; Instrumentation of polarimetric analysis; Refractometric analysis; Polarographic analysis; Capillary electrophoresis; HPLC; Mass; NMR; X-Ray

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAL-3207-2020
- **Google Scholar:** https://scholar.google.com/citations?user=uKuUCXEAAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

MERS-COV; inflammation, design and synthesis of anticancer drugs.

CURRENT RESEARCH PROJECTS

- Development of MERS-CoV Papain Like Protease (PLpro) inhibitors using High Throughput Screening Methodology
- Effect of Synthetic Compounds Targeting CNR2 over h-MBMSC Population and Osteoblast/Adipocyte Differentiation

METHODOLOGY/METHODS USED IN RESEARCH

NMR; HR Mass; FTIR

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=XpnYnYsAAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmacokinetics

RESEARCH INTERESTS AND GOALS

- Development of new methods for determination of biomarkers and some narrow therapeutic index in biological fluids.
- Application of the developed methods for determination of the pharmacokinetics of new formulations of some drugs which designed to overcome the problem of its absorption, diminish its side effect or reduce between-and within-patient variability.
- Implementation of new sampling techniques to minimize sample collection volume for clinical trials.

CURRENT RESEARCH PROJECTS

- A Rapid, Simple and Sensitive UPLC-MS/MS Method for Quantitation of Some Antiviral Drugs in Plasma: Application to Pharmacokinetics studies
- UPLC-MS/MS Assay for Quantification of some Tyrosin kinase Inhibitors in Plasma: Application to Metabolic Stability and Pharmacokinetic Studies in Rats.
- A Rapid, Accurate and Highly Sensitive UPLC-MS/MS Methods for Quantitation of some antiparkinson drugs in Plasma and Tissues: Application to Pharmacokinetics and Brain Uptake Studies in Animals.

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; LC-MS/MS; Liquid-liquid and Solid phase extraction of drugs from biological fluids

DR. AHMAD JOMAH OBAIDULLAH

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Molecular biophysics; Pharmaceutical microbiology; Molecular biology; Computational biology

RESEARCH INTERESTS AND GOALS

Using molecular modeling and drug design to discover small molecule inhibitors as antibacterial or anticancer agents

CURRENT RESEARCH PROJECTS

Synthesis, cytotoxic evaluation, and molecular docking studies of novel quinazoline and benzenesulfonamide derivatives

METHODOLOGY/METHODS USED IN RESEARCH

Molecular docking and collaboration with chemist and pharmacologist group

DR. SARA TARIQ ALRASHOOD

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Neuropharmacology; Pharmacy practice and healthcare

RESEARCH INTERESTS AND GOALS

Research in Molecular Medicine and Monoclonal Antibodies small molecules Drug Discovery's in multiple targets

CURRENT RESEARCH PROJECTS

Research in Molecular Medicine and Monoclonal Antibodies small molecules Drug Discovery's in multiple targets

METHODOLOGY/METHODS USED IN RESEARCH

NMR; IR; Crystallography; TLC; HPLC

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=5tlPnuoAAAAJ&hl=en

DR. MONA MOHAMMED ALSHEHRI

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control; Pharmacokinetics; Forensic medicine/toxicology

METHODOLOGY/METHODS USED IN RESEARCH

HPLC, UPLC/MS, Capillary electrophoresis, Micellar electrokinetic capillary electrophoresis Spectrophotometry, Spectroflourimetry

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Drug Quality Assurance
- Therapeutic Drug Monitoring

METHODOLOGY/METHODS USED IN RESEARCH

Volumetric methods of drug Analysis; HPLC Methods of Drug Analysis; Spectrophotometerice Methods of Drug Analysis; Immunoassay Methods of Analysis

DR. MAHA SULTAN ALMUTAIRI

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Molecular biophysics; Pharmaceutical microbiology; Pharmacokinetics; Molecular biology; Computational biology; Molecular pharmacology

RESEARCH INTERESTS AND GOALS

Estrogens play a crucial role in the physiology of many species, therefore the ERs represent a viable and important pharmaceutical target for pharmaceutical agents for hormone replacement in menopausal women and for reproductive cancers such as breast cancer. Non-steroidal antiestrogens bearing coumarin nuclei might affect dramatically the binding to the ER and subsequently the biological activity as anti-breast cancer agents.

CURRENT RESEARCH PROJECTS

Use the aromatase enzyme as a target for the prevention and treatment of estrogen dependent breast cancer

METHODOLOGY/METHODS USED IN RESEARCH

Different chemical reactions for synthesis of the target compounds; The IR, 1H NMR and 13C NMR as well as mass spectral data have been utilized for characterization of the synthesized compounds; TLC to follow up of the reaction and checking the homogeneity of the compounds; Viability tests were applied using MTT assay to evaluate the cytotoxicity effect of the synthesized compounds; Sandwich enzyme immunoassay for aromatase enzymatic activity

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=df0Cg1sAAAAJ&hl=ar&oi=ao

DR. RASHAD ABDULRAHMAN ALSALAHI

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Molecular biology

RESEARCH INTERESTS AND GOALS

- Synthesis of new bioactive compounds and more selective as anticancer and antiviral
- Focus our researches on specific enzymes as HAV-3C proteinase enzyme and HCV-NS3/4A protease:

CURRENT RESEARCH PROJECTS

- Owing to the great need for anticancer and antiviral compounds.
- The current research will be focused on synthesis of more specific and selective compounds.

METHODOLOGY/METHODS USED IN RESEARCH

Organic Synthesis of bioactive compounds as benzoquinazolines; purification of synthesized compounds as TLC and recrystallization; chemical and physical characterization as NMR, IR, UV and MP; biological evaluation; Theoretical studies as molecular modeling and QSAR to confirm the experimental biological results

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=UTud5WAAAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmaceutical quality control; Pharmacokinetics; Molecular biology

RESEARCH INTERESTS AND GOALS

- Optimizing the therapy of abnormal endometrial proliferation
- theorugh finding new treatment strategies, drug repurposing and drug delivery, and constructing a reliable animal models.

CURRENT RESEARCH PROJECTS

- The management of ovarian cancer using folate decorated nanoparticles.
- Development of vaginal drug delivery system for the management of cervical intraepithelial neoplasia.
- Transdermal drug delivery of 5-flururacil and dexamethasone for the management of melanoma.

METHODOLOGY/METHODS USED IN RESEARCH

Cytotoxicity; western blot; HPLC; UPLC; flow cytometry; rheometry; TEM; ELISA; immunohistochemistry; luminescence assay; in vivo generation of tumor in animals

LINK TO PUBLISHED WORK

- **ResearcherID(WoS/Publons):**https://app-webofknowledge-com.sdl.idm.oclc.org/author/#/record/4535591

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control; Pharmacokinetics; Molecular biology; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.); Forensic medicine/toxicology

RESEARCH INTERESTS AND GOALS

- Bioanalytical methods for the assay of new drugs using different analytical techniques and application of the developed methods in studies of pharmacokinetics and metabolic stability.
- Application of metabolomics in drug and biomarker discovery.
- Detection of doping and illicit drug use in biological fluids at traces levels.

CURRENT RESEARCH PROJECTS

- Mass Spectrometry-based drug metabolism investigation of newly developed tyrosine kinase inhibitors.
- Detection, identification and quantification of various doping agents in different biological samples from racing camels.
- Development of potentiometric sensors and charge transfer complexes to estimate drug concentration and pharmacological activities.
- Genomewide landscape of gene-metabolome association in methicillin-resistant Staphylococcus aureus.

METHODOLOGY/METHODS USED IN RESEARCH

DIMS, HPLC, LC-MS, LC-MS/MS, GC-MS,FTIR, spectrophotometer, immunoassay analysers

DR. REEM IBRAHIM AL-WABLI

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling

RESEARCH INTERESTS AND GOALS

The design and synthesis of new bioactive chemical entities in search of a lead compound which may target essential pathway or specific enzyme/protein. Most of my research involve the synthesis of antibacterial, antifungal, antidiabetic and anticancer agents utilizing different synthetic routes.

CURRENT RESEARCH PROJECTS

Recently, I focused on designing and synthesis of different heterocyclic molecules which may inhibit specific target in cancer such as kinases, histone deacetylase. Also, I am interested in the area of drug metabolism, molecular modeling, computational chemistry and radiolabeling.

METHODOLOGY/METHODS USED IN RESEARCH

Synthesis of target compounds; IR; NMR; Mass spectrometry

LINK TO PUBLISHED WORK

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College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug discovery and computational modeling; Forensic medicine/toxicology; Drug Metabolism

RESEARCH INTERESTS AND GOALS

Using Mass Spectrometry to solve drug metabolism problems including:

- Studying bioactivation and drug induced organ toxicity
- Profiling Metabolic pathways for tyrosine kinase inhibitors and related anti-cancer agents

CURRENT RESEARCH PROJECTS

Pralsetinib, Selpercatinib, Erlotinib bioactivation and drug induced organ toxicity

METHODOLOGY/METHODS USED IN RESEARCH

In-vivo and in-vitro drug metabolism; mass spectrometry; liquid chromatography

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/U-3384-2019
- **ORCID:** https://orcid.org/0000-0001-8115-4228
- **Google Scholar:** https://scholar.google.com/citations?hl=en&tzom=-180&user=Jkoyxx4AAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug design and synthesis; Drug discovery and computational modeling; Pharmaceutical quality control; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

Research Interests: Drug Discovery & Medicinal Chemistry; Pharmaceutical Analysis & Quality Control; Cosmetic Product Safety & Regulation; Regulatory Affairs & Drug Development

Research Goals: Advance the development of targeted anticancer and antimicrobial agents; Enhance pharmaceutical quality control practices through advanced analytical techniques; Contribute to regulatory frameworks for cosmetics and pharmaceutical products; Establish new academic and industry collaborations in drug discovery and safety evaluation; Develop training programs for professionals in pharmaceutical regulation and quality assurance

CURRENT RESEARCH PROJECTS

Design, synthesis, and biological evaluation of kinase inhibitors for cancer and microbial infections; Evaluation of certain cosmetic products in the Saudi market for chemical safety assessment; Detection of toxic compounds in certain consumer products; Quality control of active pharmaceutical ingredients

METHODOLOGY/METHODS USED IN RESEARCH

Drug design and chemical synthesis; Computational drug design (molecular docking, in silico screening); Mass spectrometry (MS & LC-MS) for compound identification, quantification, and metabolite analysis; Nuclear magnetic resonance (NMR) spectroscopy for structural elucidation of small molecules; High-performance liquid chromatography (HPLC) for drug analysis and impurity profiling; Infrared (IR) & UV-Vis spectroscopy for structural characterization and purity assessment; Chemical evaluation of cosmetic products for regulatory compliance; Preclinical drug evaluation for safety and efficacy

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/K-5313-2018
- **ORCID:** https://orcid.org/0000-0002-6983-8587
- **Google Scholar:** https://scholar.google.com/citations?user=6jJa8mcAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling; Pharmaceutical biotechnology

RESEARCH INTERESTS AND GOALS

- Screening and identification of novel anticancer compounds
- Target-based drug design for cancer therapy
- Mechanisms of drug resistance in cancer cells
- Development of nanomedicine for targeted drug delivery
- Immunotherapy and combination therapies for cancer treatment
- Pharmacokinetics and pharmacodynamics of anticancer agents

CURRENT RESEARCH PROJECTS

- Small molecule for targeted cancer therapy
- Drug repurposing for cancer drug discovery

METHODOLOGY/METHODS USED IN RESEARCH

Computational chemistry; Modeling and simulation; Drug synthesis and identification; Biological studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Web of Science ResearcherID: AAL-5543-2020
- **ORCID:** https://orcid.org/0000-0001-8711-3873
- **Google Scholar:** https://scholar.google.com/citations?user=ZzVNOAsAAAAJ&hl=ar

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis

RESEARCH INTERESTS AND GOALS

Design and development of new methods for the separation and analysis of drugs, both in the pure image or in the preparations through the use of modern and sophisticated equipment such as HPLC, UPLC / MS, Electrophoresis.

CURRENT RESEARCH PROJECTS

A New Liquid Chromatographic Method for Simultaneous Determination of Favipiravir and Selected Combined Drugs for COVID-19: Application to Pharmacokinetic Study in Rats

METHODOLOGY/METHODS USED IN RESEARCH

HPLC and Electrophoresis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/D-9820-2015
- **ORCID:** https://orcid.org/0000-0003-4471-2344
- **Google Scholar:** https://scholar.google.com/citations?user=x-kY3nUAAAAJ&hl=en

DR. NADA SALEM AL-THEYAB

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Analytical and bioanalytical analysis; Drug design and synthesis; Drug discovery and computational modeling; Molecular biology; Natural product discovery and evaluation; Pharmaceutical biotechnology; Pharmaceutical microbiology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

- Discovery of novel anticancer and Alzheimer's medicinal compounds from microbial sources
- Utilizing nanoparticles to activate silent genes for medicinal compound production
- Exploring molecular biology approaches for drug discovery
- Application of computational modeling in drug design
- Development of pharmaceutical nanotechnology for therapeutic applications
- Investigating natural products for potential drug discovery
- Polypeptide synthesis and drug development

METHODOLOGY/METHODS USED IN RESEARCH

Nanoparticle synthesis and characterization; Spectroscopic techniques for structural and functional analysis; Computational modeling and drug discovery tools; Gene expression analysis and molecular biology techniques; Microbiological techniques for pharmaceutical applications; Solid Phase Peptide Synthesis (SPPS) for polypeptide synthesis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** MIQ-6572-2025
- **ORCID:** https://orcid.org/0009-0008-6890-7115
- **Google Scholar:** https://scholar.google.com/citations?user=ljoil2MAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Forensic medicine/toxicology; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

- Bioanalytical research
- Drug Metabolism and Pharmacokinetics
- Sustainability and Green analytical method development
- Bioavailability and Bioequivalence
- Analysis of drug of abuse and Forensic toxicology

CURRENT RESEARCH PROJECTS

- Utilization of waste materials as source of sample extraction procedure
- Implementation of green solvents for bioanalytical method development

METHODOLOGY/METHODS USED IN RESEARCH

UPLC/HPLC with PDA/UV/Florescence detector; UPLC-MS/MS-based analysis of biological and environmental samples; Sample extraction from biological samples (Protein precipitation, Liquid liquid Extraction, Solid phase extraction); Bioanalytical method development and validation; Blood sampling from an experimental animal for pharmacokinetic analysis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** GXF-8249-2022
- **ORCID:** 0000-0001-5821-5600
- **Google Scholar:** https://scholar.google.com/citations?user=OXdJvvUAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug design and synthesis; Drug formulation and delivery; Forensic medicine/toxicology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Improving Physicochemical Properties
- Enhanced Drug Delivery
- Green Analytical Procedures
- Quality Control

CURRENT RESEARCH PROJECTS

- Non-salt co-amorphous Formulations;
- Analytical Method Development
- Solubilization Techniques
- Stabilization and impurities studies

METHODOLOGY/METHODS USED IN RESEARCH

Spectroscopy Techniques: Proficient in Fourier-transform infrared spectroscopy (FTIR), Raman spectroscopy, UV-Vis spectroscopy, and Nuclear Magnetic Resonance (NMR) spectroscopy. Thermal Analysis: Skilled in Differential Scanning Calorimetry (DSC) and Thermogravimetric Analysis (TGA). Other Techniques: Expertise in lyophilization, amorphous solid dispersion formulation, stability studies of pharmaceutical products, and developing green analytical methods

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/woscc/summary/999b0a09-55a9-4e77-bfa4-87f57f53ac73-0144925059/relevance/1
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DR. HAYA IBRAHIM ALJOHAR

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Clinical Pharmacy; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Herbal medicine; Medication safety; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Pharmaceutical quality control; Pharmacy regulatory affairs; Phytochemistry; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.); Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

Development and validation of new methods for drug analysis for measurements of pharmaceutical compounds, biomarkers and environmental pollutants; Studying drug stability; Studying drug metabolism and applying different tools, primarily Mass to achieving that; Natural Products: Chemical and biological evaluation of medicinal, aromatic and edible plants including the isolation and characterization of Natural Product Compounds using different analytical Techniques; Instrumental analysis by various techniques including; HPLC, LC-MS, HPLC-diodearray, capillary electrophoresis, fluorimetry, infra red spectrometry, nuclear magnetic resonance spectrometry, mass spectrometry, and spectrophotometry; Innovations of analytical methods for therapeutically important compounds employing simple chemical reactions. For more information, please visit: https://faculty.ksu.edu.sa/ar/haljohar

CURRENT RESEARCH PROJECTS

Currently, my research focus is on quality control of athletic food supplements, toxicity of some herbal traditional preparation and I am working on a project to study the quality of expired medicines and the feasibility of extending their validity period

METHODOLOGY/METHODS USED IN RESEARCH

UPLC/MS HPLC/M GC/MS ICP/MS AA CE HPLC FTIR SPECTROPHOTOMETERY

LINK TO PUBLISHED WORK

- **ResearcherID:** https://www.webofscience.com/wos/author/record/AAB-1301-2019
- **ORCID:** https://orcidhttps://orcid.org/0000-0001-8873-1040
- **Google Scholar:** https://scholar.google.com/scholar?hl=ar&as_sdt=0%2C5&q=HAYA+ALJOHAR&btnG=

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Spectroscopic green analytical methods for analytical bioscience
- Advance technique using nanoparticles and nanosensors
- Diagnostic nanosenors

CURRENT RESEARCH PROJECTS

- Smart Application of Carbon Quantum Dots (CQD) for Quality of Anticancer Agents
- Spectrofluorometric method technique for determination of sitagliptin

METHODOLOGY/METHODS USED IN RESEARCH

Expert in using different analytical instrumentation for measuring, evaluation and validation such as (microplate reader, HPLC, spectrofluorometer); Synthesis of different nanoparticles for different research aspects; Use of fluorescence microscopes for imaging; use of image J software for tracking and measuring fluorescence; Analysis and validation methodologies

LINK TO PUBLISHED WORK

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling

RESEARCH INTERESTS AND GOALS

- Drug synthesis
- Drug design
- Molecular modeling
- Synthesis of novel bioactive compounds

CURRENT RESEARCH PROJECTS

- Synthesis of bioactive compounds for the treatment of erectile dysfunction
- Synthesis of bioactive molecules for the treatment of cancer

METHODOLOGY/METHODS USED IN RESEARCH

Synthetic methodology, either a straight route for a synthesis or a convergent method; Computational drug design

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/LRU-7538-2024
- **ORCID:** https://orcid.org/0000-0002-3362-9337
- **Google Scholar:** https://scholar.google.com/citations?user=V0tMoXQAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Pharmacokinetics and computational modeling; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.)

RESEARCH INTERESTS AND GOALS

- Exploring proteomics of drug metabolising enzymes and transporters in different physiological systems
- In-silico application by creating a virtual special population based on altered drug-related physiological parameters using physiological-based pharmacokinetic (PBPK) modeling
- Determining oral and non-oral drugs' efficacy, safety, doses, and bioequivalence for different special populations

CURRENT RESEARCH PROJECTS

- Drug metabolising enzymes and transporters proteomics in the intestine of IBD populations
- PBPK modelling of IBD populations
- Bioequivalence investigation of oral drugs in IBD conditions
- Development and validation of analytical methods for different drugs

METHODOLOGY/METHODS USED IN RESEARCH

- In-vitro tissue processing and cellular extraction, subcellular fractionation, proteolytic digestion
- LC-MS/MS analysis
- Proteomics data processing
- PBPK modelling and drug pharmacokinetics assessment

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0003-1892-2452
- **Google Scholar:** https://scholar.google.com/citations?user=qIZWsRoAAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Development and validation of green and high throughput assays for the purposes of quality control and therapeutic monitoring of pharmaceuticals.
- Biotechnology of hybridoma production for generating of monoclonal antibodies specific to small molecular weight bioactive molecules
- Development of immunoassays and immunosensors for measurements of pharmaceutical compounds, biomarkers and environmental pollutants
- Instrumental pharmaceutical analysis by various techniques including HPLC, LC-MS, HPLC-diode array, capillary electrophoresis, fluorimetry, infra red spectrometry, nuclear magnetic resonance spectrometry, mass spectrometry, and spectrophotometry

CURRENT RESEARCH PROJECTS

Smart Applications of Nanomaterials for Quality Control of Chemotherapeutic Agents

METHODOLOGY/METHODS USED IN RESEARCH

Immunoassays and Immunosensors; Hybridoma technology for the production of monoclonal antibodies; Liquid Chromatography; Ligand-binding Assays; Microwell spectrometric analysis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** http://www.researcherid.com/rid/E-5594-2016
- **ORCID:** https://orcid.org/ 0000-0003-3821-623X
- **Google Scholar:** https://scholar.google.com/citations?user=NMPvnEcAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis

RESEARCH INTERESTS AND GOALS

- Pharmaceutical analysis
- Metabolomics

CURRENT RESEARCH PROJECTS

Metabolomic analysis of Biologicals

METHODOLOGY/METHODS USED IN RESEARCH

Derivatization techniques

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** GZH-4446-2022
- **ORCID:** 0000-0002-4519-0069
- **Google Scholar:** CF9y3AEAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Analytical and bioanalytical analysis; Drug formulation and delivery; Forensic medicine/toxicology; Pharmaceutical biotechnology; Pharmaceutical quality control; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

Drug metabolism; Protein binding studies; Healthcare applications of advanced analytical techniques; Explore macromolecular (polysaccharides, proteins, conjugates) structural features and interactions; Investigate pharmaceuticals, personal care products, microplastics, and PFAS in natural, engineered, and biological samples

CURRENT RESEARCH PROJECTS

Analytical Method Development: Developing and validating methods for quantitative determination of small molecule drugs in biological matrices and pharmaceutical dosage forms; Drug-Protein Interactions: Investigating interactions between FDA-approved drugs and serum albumins using fluorescence spectroscopy, UV-vis spectrophotometry, and molecular docking; Metabolomics and Drug Metabolism: Exploring reactive metabolites of novel therapeutic agents, particularly anticancer drugs. Conducting nationwide metabolomics research on MRSA strains. For more information please visit: https://faculty.ksu.edu.sa/en/asaber

METHODOLOGY/METHODS USED IN RESEARCH

Analytical Ultracentrifugation (XLI and XLA); Mass Spectrometry; Size exclusion separation techniques (HPLC, SEC-MALS, Field Flow Fractionation); Fluorescence Spectroscopy, Circular Dichroism (CD), and UV-vis spectrophotometry; Isothermal Titration calorimetry (ITC); Differential Scanning Calorimetry (DSC); Viscometry, Densimetry, Refractometry and Dynamic Light Scattering (DLS); All commonly used protein preparation and purification techniques (FPLC, Gel filtration, Ion Exchange Chromatography, etc.)

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/A-1333-2012
- **ORCID:** https://orcid.org/0000-0002-5910-2832
- **Google Scholar:** https://scholar.google.com/citations?user=RdS7cBEAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Analytical and bioanalytical analysis; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Medication safety; Molecular biology; Molecular pharmacology and toxicology; Neuropharmacology; Pharmaceutical quality control; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

My research seeks to understand the changes that occur during aging, leading to neuroinflammation and cognitive decline. A key objective is to identify proteins relevant to neuroinflammation, as they could serve as biomarkers in the aging brain or as potential drug targets for prevention and treatment. I am also exploring the role of gut microbiota, given its possible connection to cognitive decline and neuroinflammation. Another focal point of my research is to discern age and sex differences in the normal aging process. Understanding these differences is crucial, especially considering that women are at a higher risk of developing Alzheimer's disease (AD). I aim to develop non-invasive diagnostic methods for early detection of AD in those with comorbid conditions. For more information please visit: https://faculty.ksu.edu.sa/en/aalsegiani

CURRENT RESEARCH PROJECTS

- Salivary Biomarkers as Predictors of Disease
- Development of new methods of Nitrosamine Impurities in Pharmaceutical Drug Substances
- Microbiota dysbiosis research
- Aging research

METHODOLOGY/METHODS USED IN RESEARCH

LC-MS/MS HPLC GC-MS animal surgery behavioral study Western blot immunohistochemistry in-vitro immunocytochemistry ELISA PCR RNA-seq

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/38356060
- **ORCID:** https://orcid.org/0000-0003-2463-3606
- **Google Scholar:** https://scholar.google.com/citations?user=9uBGTIEAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Drug formulation and delivery; Pharmaceutical biotechnology

RESEARCH INTERESTS AND GOALS

My main research interest is in finding novel, non-toxic nano-conjugates that could be utilized as potential chemotherapeutic agents. I study the synthesis of novel drug conjugates using natural compounds or commercially available drugs. Additionally, I develop drug formulations using nanoparticles based on synthesized drug conjugates and evaluate the anticancer, antifungal, or antibacterial potential of these formulations. My research particularly focuses on exploring the potential of these conjugates and nano-formulations in reducing the risk of cancer.

CURRENT RESEARCH PROJECTS

1. Therapeutic potential of functionalized siRNA nanoparticles on regression of liver cancer in experimental mice 2. Pro-apoptotic activity of nano-escheriosome based oleic acid conjugate against 7, 12-dimethylbenz (a) anthracene (DMBA) induced cutaneous carcinogenesis. 3. Anticancer efficacy of novel propofol-linoleic acid loaded escheriosomal formulation against murine hepatocellular carcinoma 4. Additive potential of combination therapy against cryptococcosis employing a novel amphotericin B and fluconazole loaded dual delivery system

METHODOLOGY/METHODS USED IN RESEARCH

Spleenocyte culture, isolation of peritoneal and spleenocyte macrophages, isolation of cells, cell line proliferation and maintenance, Flow cytometry (FACS) through Annexin-V, FITC and propidium Iodide labelling, sub-G0 phase (cell cycle analysis) Sandwich ELISA, indirect ELISA, dot blot, Western blot, lymphocyte proliferation assay. immunoliposome preparation, Estimation, purification, SDS-PAGE, column chromatography, enzyme assays, antibody purification from serum, antibody modification, preparation of immunoaffinity column for protein purification.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Q-2841-2016
- **ORCID:** https://orcid.org/0000-0001-5955-3783
- **Google Scholar:** https://scholar.google.com/citations?user=nho7qJMAAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

HPLC-Mass, spectrophotometry, Spectrofluorimetric, electroanalytical, theoretical studies

METHODOLOGY/METHODS USED IN RESEARCH

HPLC-Mass and electo-anlytical chemistry

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAx-4458-2021
- **ORCID:** https://orcid.org/0000-0002-2912-3173
- **Google Scholar:** https://scholar.google.com/citations?user=KLycOcIAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Computational biology; Pharmaceutical quality control; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

In-vitro Ligand-Protein binding studies using various models; Molecular docking for ligands and proteins using different molecular docking softwares; Molecular dynamic simulation studies for ligand protein interaction; In-vitro toxicity, and ADME studies; Method development and validation of biosensors for estimation of Cancer Markers; Development and validation of highly sensitive enzyme immunoassay for estimation of drugs; Method development and validation of immunoassays using new platform KinExA (Kinetic Exclusion Assay); Development and Validation of Bioanalytical methods for quantification of pharmaceuticals using various techniques such as HPLC, UPLC, UPLC-LC/MS/MS, UV-VIS spectrophotometer, Fluorescence spectrophotometer; Chiral resolution of racemic compounds Supercritical Fluid chromatography (SFC) and HPLC; Bioavailability and bioequivalence studies of drugs for company products.

CURRENT RESEARCH PROJECTS

Unveiling the Complex Interplay: Investigating the Biomolecular Interactions and Binding Dynamics of Tyrosine Kinase Inhibitors with Thyroid-Binding Globulin (TBG)

METHODOLOGY/METHODS USED IN RESEARCH

Bioanalytical Method Development and Validation; HPLC, UPLC, UPLC-LC/MS/MS; UV-VIS Spectrophotometry; Fluorescence Spectrophotometry; Protein-Drug Interaction Studies; Multi-spectroscopic Techniques; Molecular Docking; Molecular Dynamic Simulations; Chiral Supercritical Fluid Chromatography (SFC); HPLC-based Techniques; Biosensor Development; KinExA (Kinetic Exclusion Assay); Immunoassays for Drug Estimation. For more information please visit: https://faculty.ksu.edu.sa/ar/twani

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** 15623701700
- **ORCID:** 0009-0008-3498-4112
- **Google Scholar:** https://scholar.google.com/citations?user=RIfibvcAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Phytochemistry; Chemical Biology

RESEARCH INTERESTS AND GOALS

- Synthesis of biological active synthetic/natural molecules
- Total synthesis of natural products
- Methodology development of various organic reactions
- Bio-conjugates Chemistry, Host-guest chemistry and Heterocyclic Chemistry
- Biological activities (Cytotoxicity, Topoisomerase I & II inhibitory activity, Enzyme inhibitory activities. etc.)
- Drug Metabolism

CURRENT RESEARCH PROJECTS

Design, synthesis and biological evaluation of small synthetic organic molecules for Tyrosine Kinase Inhibitory Activity, Cytotoxicity, Topoisomerase inhibitory activity.

METHODOLOGY/METHODS USED IN RESEARCH

Synthesis; Cytotoxicity; Molecular Modeling; Metabolic Profiling

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** http://www.researcherid.com/rid/B-5442-2012
- **ORCID:** https://orcid.org/0000-0002-5807-5625
- **Google Scholar:** https://scholar.google.com/citations?user=JeKXZjIAAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling

RESEARCH INTERESTS AND GOALS

Discovery, design and preparation of biologically effective compounds and the study of their effect on the body of the organism at the molecular level, and the study of the relationship between the structural structure and the effectiveness and kinetics of the drug, which gives a comprehensive knowledge of drug chemistry

CURRENT RESEARCH PROJECTS

Synthesis of Biologically-active compounds and study of their chemical structure & Quantum chemistry

METHODOLOGY/METHODS USED IN RESEARCH

Synthesis of biologically-active compounds and study of their chemical structure

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/D-9830-2015/
- **ORCID:** https://orcid.org/ 0000-0003-2727-4178
- **Google Scholar:** https://scholar.google.com/citations?user=n6qfkEMAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling; Molecular biology; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

Developing plans to identify, create, develop, and characterize bioactive chemicals from a pharmacological and analytic perspective. An interest in and motivation for the drug discovery process and synthesis of bioactive compounds as anticancer, antiviral, antioxidant, antimicrobial, etc.). The capacity to plan and execute scientific investigations safely and precisely. Data Interpretation pertaining to our investigations, such as NMR, IR, and MS of substances, and their biological results. Study structure activity relationship of the target molecules and optimization of lead structures and their synthetic routes. QSAR and molecular docking studies.

CURRENT RESEARCH PROJECTS

Synthesis of heterocyclic compounds: Chemical characterization using NMR, IR and MS spectra and evaluation their biological activity, molecular docking, and theoretical chemistry analysis

METHODOLOGY/METHODS USED IN RESEARCH

Synthesis methods; NMR technique; IR technique; MS technique

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAY-5539-2020
- **ORCID:** https://orcid.org/0000-0003-1747-2736
- **Google Scholar:** https://scholar.google.com/citations?user=UTud5WAAAAAJ&hl=ar

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

Drug Synthesis and modeling

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=15059925500&zone=
- **ORCID:** https://orcid.org/0000-0002-9866-343x
- **Google Scholar:** https://scholar.google.com/citations?user=Gnz-LOgAAAAJ&hl=en&oe=ASCII

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical biotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Pharmaceutical chemistry
- Develop UPLC methods of newly formulated products
- Perform analysis of various developed methods

CURRENT RESEARCH PROJECTS

Using Analytical skills for pharmacokinetic and pharmacodynamic studies.

METHODOLOGY/METHODS USED IN RESEARCH

High-resolution mass; Ultra performance Liquid Chromatography; FTIR; UV-Vis; LCMS; Scanning Electron Microscope

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABB-4434-2020
- **ORCID:** https://orcid.org/my-orcid?orcid=0000-0002-7826-7050
- **Google Scholar:** https://scholar.google.com/citations?user=UD6RY5cAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis

RESEARCH INTERESTS AND GOALS

- Synthesis of small molecules
- Characterization of compounds by spectral analysis
- In silico/in vivo/in vitro evaluation as anti cancer agents

CURRENT RESEARCH PROJECTS

Synthesis of novel flufenamic acid derivatives as selctive cox-2 inhibitors

METHODOLOGY/METHODS USED IN RESEARCH

Synthesis of medicinal drugs by single and multiple steps; development of new route of synthesis; drug design for cox-2 inhibitors; analysis of synthesized compounds by UV, FTIR, 1H NMR, 13C NMR, HR MS; purification of compounds

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** E-4849-2018
- **ORCID:** https://orcid.org/0000-0001-8426-4692
- **Google Scholar:** https://scholar.google.com/citations?user=IRZr_I0AAAAJ&hl=en

Pharmaceutics Department

Last updated I Oct 2025

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmacokinetics; Herbal medicine

RESEARCH INTERESTS AND GOALS

- To prepared, optimize and evaluate the efficacy of different nano-sized formulation either meant for the oral or transdermal route by in-vitro or in-vivo experiments.
- To elucidate the mechanistic approach for the induction and inhibition of cytochrome P450 enzyme activity in animals by the administration of herbs or drugs.
- To determine the solubility and thermodynamic activity of the various drugs in various commonly used solvents in the lab.
- To prepare and evaluate the inclusion complex.

CURRENT RESEARCH PROJECTS

- Currently working on Solubility and thermodynamic activity of temozolomide and vinpocetine in various solvents.
- The second project is Pharmacodynamic and pharmacokinetic interactions of anti-hypertensive drugs with various herbal medicines.
- The third project undergoing is Pharmacodynamic and pharmacokinetic interactions of anti-diabetic drugs with various herbal medicines.
- The other project is the Preparation and characterization of cyclodextrin based inclusion complex with the drug.

METHODOLOGY/METHODS USED IN RESEARCH

HPLC, LCMS, UV spectroscopy, rats blood pressuring measuring technique, Rotary evaporation technique, Franz cell permeation technique. Plethysmometer paw edema measuring technique, Dissolution technique, Dynamic light scattering technique, Ultracentrifuge technique, Differential scanning calorimetry technique, drug solubility enhancement technique, and Animal handling

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** L-8383-2015
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=qKsiOo0AAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

Exploring therapeutic potential of nanoparticles

CURRENT RESEARCH PROJECTS

Many projects concerning ocular drug delivery and nanoparticluate drug delivery including vaccine development

METHODOLOGY/METHODS USED IN RESEARCH

Flow cytometry, gel electrophoresis, ELISA, Cell Culture, Fluorescent Microscopy

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=_PcsGrYAAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Drug formulation and delivery; Molecular biology; Molecular toxicology

RESEARCH INTERESTS AND GOALS

To investigate the role of omega-6 and 3 fatty acids in the progression of prostate cancer andUnderstand the molecular mechanism of these fatty acids

CURRENT RESEARCH PROJECTS

Currently, we examine the anticancer activities of several synthesized compounds on different type of cancer cell lines. Also we work in designing different formula to improve solubility of different insoluble drugs.

METHODOLOGY/METHODS USED IN RESEARCH

Cell culture, MTT and SRB assays, gas chromatography, liquid chromatography coupled to tandem mass spectrometry, ultra-high performance supercritical fluid chromatography to mass spectrometry, scratch assay and invasion assay and flow cytometry,

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Molecular biophysics; Computational biology

RESEARCH INTERESTS AND GOALS

Elucidate the features of a drug essential to certain biological activity and use these feature to search the chemical database to discover new drugs more active or/and less toxic. *Study the mechanism of interaction of a drug with target protein that results in certain biological activity and uses these information to design new drugs and suggest it for synthesis or use these information to search the chemical database to discover new drugs. Synthesis new biological active heterocycles.

CURRENT RESEARCH PROJECTS

- Understanding the mechanism of antivirulant activity of newly dicovered antibiotic that inhibit the signaling system of bacteria; a new promising mechanism of antibiotics.
- Synthesis of new compounds as antimicobial agents.
- Synthesis of new compounds as anti-Alzheimer's disease.
- Synthesis of new compounds as anti-cancer agents.

METHODOLOGY/METHODS USED IN RESEARCH

For the molecular modeling, use linux workstation labtop and software specialized for pharmacophore modeling, docking study, atructure analysis, virtual database screening, MD simulation analysis. For synthesis, use IR, NMR, MS spectrometers and laboratory for experimental evaluation of biological activities.

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

Development of drug delivery systems to target cancer cells

CURRENT RESEARCH PROJECTS

Currently, our work is focused on on the development of drug delivery nanocargoes to specifically target the cancer cells

METHODOLOGY/METHODS USED IN RESEARCH

Particles size analyzer, flow cytometry, HPLC

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

To design, Synthesis and evaluation of different drug delivery systems based on organic porous materials such as polymers or hybrid organic/inorganic materials such as metal organic frameworks (MOFs).

CURRENT RESEARCH PROJECTS

- MOFs as drug delivery systems.
- Polymers for local drug delivery in periodontal diseases

METHODOLOGY/METHODS USED IN RESEARCH

HPLC, TGA, NMR, XRD, UV Spectrophotometry, Tensile testing, ICP-OES, EA, AAS.

LINK TO PUBLISHED WORK

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College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmaceutical quality control; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

To better understand the solubility characteristics of conventioanl to peptide/protein. Also, find better alternative and less invasive drug delivery routes for I.V. and oral drugs. In particular, transdermal drug delivery. Finally, I focus on cGMP and any updates in the regulatory aspects.

CURRENT RESEARCH PROJECTS

- Solubility studies of newly synthesized compounds.
- Protein transdermal delivery

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; HPLC-MS/MS; GC-MS; PXRD; DSC; FTIR; SEM; Dynamic Light Scattering

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmacokinetics

RESEARCH INTERESTS AND GOALS

Using new nanocarriers for skin delivery of some drugs in order to overcome the issues associated with their oral dosage form. Designing of nano-lipids or their surface-coated could improve anti-tumor activity of chemotherapeutic agents depending on in vitro or in vivo evaluation and distribution. my new goal to enhance the drug transport from Nose-To-Brain tissues using different new nanocarriers.

CURRENT RESEARCH PROJECTS

- The clinical evaluation of transdermal delivery of glipizide based on chitosan-coated flexible liposomes films.
- Anti-inflammatory effect of lornoxicam loaded self-nanoemulsion.
- Chitosan-Coated bromocriptine mesylate nanoparticles for Nose-To-Brain Delivery. Anticancer activity of 5-Fluorouracil loaded nanoerythrocytes coated by nanocarriers and LDL targeted liposomes containing 5-fluorouracil cholesterol conjugates using liver cancer cell lines, in vitro, ex vivo, biodistribution.

METHODOLOGY/METHODS USED IN RESEARCH

Preparation and development of different nanocarriers.
Physicochemical Characterizations (Particle size analyzer (PCS), Transmission electron microscopy (TEM), scanning electron microscopy (SEM), entrapment efficiency (ultracentrifugation), DSC, FTIR, SAXR). FTIR In-vitro, skin penetration studies (Franz diffusion cells), Tape stripping technique, HPLC, Spectrophotometer. Pharmacokinetic, biodistribution and Cytotoxicity study.

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmacokinetics; Molecular biology; Molecular toxicology; Toxicological risk assessment; Molecular pharmacology; Herbal medicine; Natural product discovery and evaluation

RESEARCH INTERESTS AND GOALS

Explore the molecular mechanism of phytoconstituents and implication of Nrf2/HO-1 and NF-kB pathways in doxorubicin, streptozosin, isoprotenol, D-Gal/LPS induced toxicity, Pharmacokinetics and pharmacodynamics interaction of herb and drugs, To elucidate the mechanistic approach for the induction and inhibition of cytochrome P450 enzyme activity in animals by the administration of herbs or drugs.

CURRENT RESEARCH PROJECTS

- Sinapic acid ameliorates cardiac dysfunction and cardiomyopathy in diabetic rats.
- Gastroprotective effect of Sinapic acid in ethanol-induced gastric ulcer in rats: Involvement of the Nrf2/HO-1 and NF-kb signaling.
- Pharmacodynamics and pharmacokinetic interactions of anti-diabetic drugs with various herbal medicines.
- Pharmacodynamics and pharmacokinetic interactions of anti-hypertensive drugs with various herbal medicines.

METHODOLOGY/METHODS USED IN RESEARCH

immunoblotting, Histopathology, Real time PCR,SDS PAGE, ELISA, Spectrophotometry, HPLC, MS/MS,gel electrophoresis, comet assay, various rodent disease models, ocular uveitis. biochemical assays.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAG-8458-2020
- **Google Scholar:** https://scholar.google.com/citations?user=P2fsacoAAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis, Molecular biophysics, Pharmaceutical biotechnology, Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

Protein (vaccine/therapeutic), characterization, formulation, stabilization

CURRENT RESEARCH PROJECTS

- Anthrax vaccine development
- Drug screening against MERS/SARS-2 PLpro protease

METHODOLOGY/METHODS USED IN RESEARCH

Protein expression/characterization/analysis

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmacokinetics

RESEARCH INTERESTS AND GOALS

To determine the solubility of various drugs in different neat solvents and their aqueous mixtures. These outcomes will help in the analysis of those drugs and to develop nanoemulsion formulations.

CURRENT RESEARCH PROJECTS

Currently working onto determination the solubility of various drugs in different neat solvents and their aqueous mixtures. These outcomes will help in the analysis of those drugs and to develop nanoemulsion formulations.

METHODOLOGY/METHODS USED IN RESEARCH

HPLC, Water-bath shaker, sonicator and differential scanning calorimeter

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=PIY4lP4AAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical quality control; Pharmaceutical industry; Solid dispersion

RESEARCH INTERESTS AND GOALS

Invent new solid dosage forms

CURRENT RESEARCH PROJECTS

Solubility enhancement, nanotechnology, drug delivery

METHODOLOGY/METHODS USED IN RESEARCH

HPLC, Microwave, XRD, FTIR, NMR, TEM, SEM, DSC, TGA.

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical microbiology; Molecular biology

RESEARCH INTERESTS AND GOALS

Finding new antibiotics and solve the MDR

CURRENT RESEARCH PROJECTS

Quorum sensing

METHODOLOGY/METHODS USED IN RESEARCH

PCR, Cell culture, Protein production and purification

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Aleanizy FS
- **Google Scholar:** https://scholar.google.com/citations?user=riDEwOYAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

To deliver poorly soluble drugs using nanotechnology

CURRENT RESEARCH PROJECTS

- Ocular drug delivery of dex using different nanoparticle systems
- Understanding the toxicity of different metal based nanoparticles

METHODOLOGY/METHODS USED IN RESEARCH

Nanoparticle formulation and characterization; Flow cytometry; plate reader; cell culture

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=DriXsEwAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical biotechnology; Pharmaceutical microbiology

RESEARCH INTERESTS AND GOALS

To study the pathogenicity of bacteria by molecular identification of microbial genes and their impact on bacterial resistance and virulence

CURRENT RESEARCH PROJECTS

Understanding the effects of high fat diet on gut microbiome

METHODOLOGY/METHODS USED IN RESEARCH

PCR, SEM, TEM, CLONING, C, ELEGANS, WESTERN BLOT, BIOFILM, SDS-PAGE

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control; Pharmacokinetics; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

To study the effect of widely used herbs on PK/PD of certain drugs

CURRENT RESEARCH PROJECTS

To study the effect of widely used herbs on PK/PD of anti-diabetic medcations

METHODOLOGY/METHODS USED IN RESEARCH

HPLC/LCMS

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

Drug targeting and reduction of side effects

CURRENT RESEARCH PROJECTS

Optimization of formulation variables on Gefitinib Nanoparticles Prepared by Anti-Solvent Evaporation Technique: In-Vitro and Cytotoxicity Evaluation

METHODOLOGY/METHODS USED IN RESEARCH

HPLC, Franz cell for in vitro release, TEM

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery; Drug design and synthesis; Analytical and bioanalytical analysis; Molecular biophysics; Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control; Pharmaceutical microbiology; Pharmacokinetics

RESEARCH INTERESTS AND GOALS

To formulate and evaluate polymeric nanocarrier system for oral/topical application.

CURRENT RESEARCH PROJECTS

There is considerable need for improving the way drug is administered to children. All-trans-retinoic acid is mentioned on the list of pediatric needs for oncology with specific attention to a formulation suitable for pediatrics, as the large capsules are impossible for children to swallow. The goal of our project is to develop a novel polymer based nanoparticle for ATRA to improve patient accessibility and adherence as well as drug bioavailability in a child-friendly/easy to-swallow dosage form

METHODOLOGY/METHODS USED IN RESEARCH

Brookfield Viscometer, Sonics Probe sonicator Bench top homogenizers, Nano DeBEE high pressure homogenizer, NICOMP 380ZLS Particle sizer/Zeta Potential, Microbalance, HPLC, gel electrophoresis, GC-MS, Laser Scanning Confocal Microscope System Interfaced w/the IX70 Microscope, ImagePro software for image analysis, flow cytometer, NMR and BIFLEX IV Matrix Assisted Laser Desorption Ionization Time-of-Flight (MALDI-TOF) mass spectrometer.

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery, Pharmaceutical biotechnology, Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

Effect of different additives on the drug efficacy from the dosage form

CURRENT RESEARCH PROJECTS

Development of nano disinfectant to control coronavirus transmission

METHODOLOGY/METHODS USED IN RESEARCH

In vitro and in vivo evaluation

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control; AI in drug research and formulation design

RESEARCH INTERESTS AND GOALS

Develop innovative drug delivery systems with emphasis on modulated and bio-responsive release mechanisms; Advance nanotechnology applications in pharmaceutical formulations to enhance bioavailability and targeting; Pioneer AI-driven approaches for pharmaceutical formulation design and drug discovery; Optimize self-nanoemulsifying drug delivery systems (SNEDDS) for poorly water-soluble drugs; Explore novel matrix tablet technologies for biphasic and controlled drug release; Refine bioanalytical methods using UPLC-MS/MS for pharmacokinetic studies; Establish industry-academia partnerships to translate research innovations to commercial products. For more information please visit: https://faculty.ksu.edu.sa/ar/eelzayat1c

CURRENT RESEARCH PROJECTS

Turmeric Oil-Fortified Nutraceutical-SNEDDS: An Approach to Boost Therapeutic Effectiveness of Dapagliflozin During Treatment of Diabetic Patients; Optimization and Validation of UPLC Method for Candesartan Cilexetil and Dapagliflozin in an on-demand formulation: DoE-Based Analytical Quality by Design Approach; Revolutionary Bi-Layered Matrix Tablets for Biphasic Drug Delivery of Diclofenac: Unveiling the Bioequivalence & Commercialization Potential; AI-Powered GMP Inspection Report Generation and Regulatory Compliance System for Saudi FDA

METHODOLOGY/METHODS USED IN RESEARCH

For more information please visit: https://faculty.ksu.edu.sa/ar/eelzayat1c

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/GRY-0433-2022
- **ORCID:** https://orcid.org/0000-0001-5177-4477
- **Google Scholar:** https://scholar.google.com/citations?user=3F4w5UIAAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical biotechnology; Pharmaceutical microbiology

RESEARCH INTERESTS AND GOALS

Antibiotic-resistant and Bacterial ghosts

CURRENT RESEARCH PROJECTS

Bacterial ghosts as anticancer drug delivery

METHODOLOGY/METHODS USED IN RESEARCH

Antibiotic assay; Molecular biology; Drug delivery

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** F-2244-2019
- **ORCID:** 0000-0002-8263-137X
- **Google Scholar:** https://scholar.google.com/citations?user=Tt5cotwAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

- Pharmaceutical Nanotechnology
- Dosage form design
- Drug targeting
- Cancer targeting
- Drug repurposing

CURRENT RESEARCH PROJECTS

- Hair follicle targeting
- Nanofiber formulations
- Tackling antimicrobial resistance (AMR) through nanodrug delivery systems

METHODOLOGY/METHODS USED IN RESEARCH

Formulation and characterization of different nanodrug delivery systems; Ultrasonication/homogenization; Film hydration method/solvent injection method; Infrared (IR) spectroscopy / Differential scanning calorimetry (DSC); Raman spectroscopy; Electrospinning; Cell culture; High-performance liquid chromatography (HPLC)

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/HOC-7962-2023
- **ORCID:** https://orcid.org/0000-0001-7891-2147
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=DMcRh80AAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Molecular biology; Pharmaceutical biotechnology; Pharmaceutical microbiology

RESEARCH INTERESTS AND GOALS

- Investigating resistance mechanisms of antimicrobial agents
- Designing novel antimicrobial agents and techniques to treat multidrug-resistant pathogens

CURRENT RESEARCH PROJECTS

- Assessing the antibiotic resistance rates of multidrug-resistant bacteria
- Characterizing the genes associated with antibiotic resistance

METHODOLOGY/METHODS USED IN RESEARCH

PCR primer design; PCR; DNA extraction techniques of bacterial genome; Gel electrophoresis (Agarose gel electrophoresis and SDS PAGE); Transformation of gnetic materials; Gene insertion into a plasmid; Protein expression and purification; Western blot; Assessing the activity of antimicrobial agents agaisnt bacteria; Bioinformatics analysis of gene-associated data

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/MGU-8988-2025
- **ORCID:** https://orcid.org/0000-0001-5532-3358

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmaceutical quality control; Pharmacokinetics and computational modelin; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

- Design and development of nanotechnology products that can: i- increase solubility, ii- modify the pharmacokinetic/biodistribution pattern, iii- reduce toxicity and increase the efficacy of different therapeutic agents
- In vitro evaluation of generic drugs

CURRENT RESEARCH PROJECTS

- In vitro dissolution and quality control studies for generic clopidogrel products
- Exploring Solithromycin-loaded micelles as an innovative ocular delivery system for the treatment of eye infections
- Development of a micellar formulation for the pulmonary delivery of Solithromycin
- Linagliptin-loaded polymeric micelles for the treatment of Alzheimer's disease
- Development and characterization of 3D-printed lenses of Tacrolimus-loaded polymeric micelles for ocular application
- For more info, please visit: https://faculty.ksu.edu.sa/en/zbinkhathlan

METHODOLOGY/METHODS USED IN RESEARCH

Polymer synthesis; NMR; GPC; FTIR; DSC; XRD; Polymeric micelles; DLS; HPLC/UPLC with UV, fluorescence, or MS/MS detectors; In vitro dissolution/release; In vitro stability; In vitro/ex vivo permeability; In vivo pharmacokinetic/biodistribution; Protein binding; Stability studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** H-2714-2019
- **ORCID:** https://orcid.org/0000-0003-1853-7490
- **Google Scholar:** https://scholar.google.com/citations?user=KJgkouYAAAAJ&hl

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AREAS OF EXPERTISE AND RESEARCH

Molecular biology; Pharmaceutical biotechnology; Pharmaceutical microbiology

RESEARCH INTERESTS AND GOALS

- Characterization of the resistance mechanisms of Enterobacteriaceae to antibiotics
- Screening of extended spectrum β-lactamase (ESBL), metallo-β-lactamase (MBL), and AmpC plasmid mediated β-lactamases in Enterobacteriaceae and Pseudomonas
- Phenotypic and genotypic characterization of ESBL, MBL and AmpC
- Genetic basis of resistance mechanisms in Enterobacteriaceae, Pseudomonas and Acinetobacter species
- Analysis and prevalence of plasmid mediated quinolone resistance such as qnr, aac(6)-Ib-cr, qepA genes
- Role of mobile genetic elements that enhance mobilization of the resistance genes
- Investigation of methicillin resistant Staphylococcus aureus (MRSA)

CURRENT RESEARCH PROJECTS

Characterization of the mechanisms of resistance in Acinetobacter baumannii and Klebsiella pneumoniae

METHODOLOGY/METHODS USED IN RESEARCH

Antimicrobial susceptibility testing; Microbial Identification; PCR; DNA sequencing; PFGE

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABC-6861-2020
- **ORCID:** https://orcid.org/0000-0001-9868-0355
- **Google Scholar:** https://scholar.google.com/citations?user=AtCFq0AAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug formulation and delivery

RESEARCH INTERESTS AND GOALS

- Pharmaceutical technology
- Dosage form formulation

CURRENT RESEARCH PROJECTS

- SR tablet formulations
- GR tablet formulations

METHODOLOGY/METHODS USED IN RESEARCH

Tablet formulations; nanotechnology; Dermal and oral films

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/orcid-search/search?searchQuery=gamal%20m%20mahrous
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=3pg7lEQAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

- Macrophage-based cancer immunotherapy
- Development of nanomedicine-based formulations for cancer and infectious diseases
- Pulmonary drug delivery/pulmonary biopharmaceutics.

CURRENT RESEARCH PROJECTS

- Development and efficacy assessment of nanoformulations loaded with receptor tyrosine kinase inhibitors for the treatment of various malignancies
- Development and efficacy assessment of antibiotic nanoformulations for treating bacterial infections
- Investigation of the effects of targeting senescent macrophages in cancer

METHODOLOGY/METHODS USED IN RESEARCH

Cell culture; Cellular transfection: Retrovirus-based transfection of murine cell lines; MTT and apoptosis; ELISA and Western Blot; Extraction of protein from in vitro & in vivo tissues and tumors; RT-PCR; Flowcytometry: Analysis of cells and cellular markers in a variety of in vitro and in vivo tissues, and establishment of complex flowcytometry panels for detection of markers and cells in various tumor microenvironments; Parenteral drug delivery in mice: Intravenous, intramuscular, intraperitoneal, retro-orbital venous, and subcutaneous injections; Establishment of immunocompetent mouse models of lung tumors: various models of lung metastasis; In Vivo Imaging System (IVIS): Monitoring and quantification of bioluminescent and fluorescent cancer cells in vitro, in vivo, and ex vivo; In vivo pulmonary drug delivery via endotracheal installation. For more info, please visit: https://faculty.ksu.edu.sa/en/salhudaithi

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/KIA-0176-2024
- **ORCID:** https://orcid.org/0000-0001-8418-9311
- **Google Scholar:** https://scholar.google.com/citations?user=Bn_E4OYAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

The main focus of my research is to conduct rigorous translational nano-formulation development for promising improvements of potential therapeutics, which primarily covers the preparation and evaluation of ocular drug delivery systems. Nanotechnology represents an area of particular promise and significant opportunity across multiple scientific disciplines. Ongoing nanotechnology research ranges from the characterization of nanoparticles and nanomaterials to the analysis and processing of experimental data seeking correlations between nanoparticles and their functionalities and side effects.

CURRENT RESEARCH PROJECTS

We developed PLGA nanoparticles to reduce the nephrotoxicity and to enhance the therapeutic potential of tacrolimus with the approach of their lymphatic targeting. We developed a rabbit model of experimental uveitis induced by intravitreal injection of lipopolysaccharides to check the anti-inflammatory potential of a topically applied sustained-release cyclosporine-A polymeric sol-gel system and its comparison with the existing emulsion of cyclosporine-A (Restasis®) as well as dexamethasone-loaded chitosan nanoparticles and its comparison with the marketed VIGAMOX® eye drops. We check the clinical grading and signs of uveitis, total inflamed cell counting, and total protein estimation. We estimated the tumor necrosis factor (TNF-a) and histopathologic evaluation for severity of vasodilatation, edema, and inflammatory cell infiltration. For more info, please visit: https://faculty.ksu.edu.sa/en/makalam

METHODOLOGY/METHODS USED IN RESEARCH

For more info, please visit: https://faculty.ksu.edu.sa/en/makalam

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABA-9199-2020
- **ORCID:** https://orcid.org/0000-0002-5713-8858
- **Google Scholar:** https://scholar.google.com/citations?user=CTvS3-YAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Supply chain

RESEARCH INTERESTS AND GOALS

- Utilize 3D-printing technology to overcome challenges in drug formulation and delivery
- Advance personalized medicine through 3D-printing of patient-specific pharmaceuticals
- Establish regulatory frameworks for new innovative technologies

CURRENT RESEARCH PROJECTS

- 3D-printing of oral polypills for the treatment of tuberculosis
- Development of liposome for the delivery of lutolin and piperine
- 3D-printing of personalized pills in community pharmacy

METHODOLOGY/METHODS USED IN RESEARCH

3D-printing technology; Nanotechnology

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug formulation and delivery; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

- Self-nanoemulsifying drug delivery system for formulating lipophilic drugs
- Formulation of controlled release solid dosage forms
- Oral bioavailability and pharmacokinetics studies
- Optimization studies of pharmaceutical processes and formulations
- Liposomes as drug delivery system for lipophilic drugs
- Specific colon drugs delivery formulation
- Topical drug delivery systems

CURRENT RESEARCH PROJECTS

Ocular drug delivery

METHODOLOGY/METHODS USED IN RESEARCH

Drug formulation and delivery; Drugs pharmacokinetics

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control; Pharmacokinetics and computational modeling; Pharmacy regulatory affairs; Drug metabolism and drug interaction studies

RESEARCH INTERESTS AND GOALS

- Drug analysis in biological fluids and pharmaceutical dosage forms
- Quality control evaluation studies of pharmaceutical products
- Characterization of drugs' pharmacokinetics under different conditions
- Performing drug-drug and herb-drug interaction studies both in vitro and in vivo

CURRENT RESEARCH PROJECTS

- Quality control comparative studies of selected generic products
- Herb-drug interaction studies using human liver microsomes as an in vitro model
- Characterization of drug pharmacokinetics for potential drug interactions

METHODOLOGY/METHODS USED IN RESEARCH

Drug analysis both in dosage forms and in biological fluids; Drug dissolution studies; Pharmacokinetic studies in animals and human subjects including bioequivalence and bioavailability studies; Drug interaction studies and assessment of drug metabolizing enzymes (phenotyping)

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/1062250
- **ORCID:** https://orcid.org/0000-0001-8203-1940
- **Google Scholar:** https://scholar.google.com/citations?user=lUNt7LgAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Designing and developing targeted drug delivery systems
- Enhancing the bioavailability of poorly soluble drugs
- Developing controlled release formulations using polymers and/or lipids

CURRENT RESEARCH PROJECTS

- Formulation and evaluation of different drug delivery systems
- Nanotechnology-based inhalation formulations for pulmonary delivery

METHODOLOGY/METHODS USED IN RESEARCH

Next Generation Pharmaceutical Impactor for pharmaceutical inhaler testing; Spray drying; lyophilization; In vitro dissolution testing; Gel electrophoresis; X-ray diffraction analysis; Scanning electron microscopy; TGA; UV Spectrophotometry; HPLC

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www-webofscience-com.sdl.idm.oclc.org/wos/author/record/2071990
- **ORCID:** https://orcid.org/0000-0002-1313-1283
- **Google Scholar:** https://scholar.google.com/citations?user=scsZEgkAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmaceutical quality control; Pharmacokinetics and computational modeling

RESEARCH INTERESTS AND GOALS

- Designing and developing of targeted drug delivery approaches especially lipids and liposomes
- Enhancing the bioavailability of poorly soluble drugs and developing controlled release formulations using polymer and phospholipid combination to reduce the burst release
- Formulating inhaled targeted therapy for lung cancers using lipid nanoparticle
- Conducting drug Analysis in biological fluids using HPLC, and UPLC MS/MS

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAH-3549-2021
- **ORCID:** https://orcid.org/0000-0001-7736-6279
- **Google Scholar:** https://scholar.google.com/citations?user=WvZXleoAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- General Research Interest
- Formulation of medicines
- Lipid based drug delivery (self-nanoemulsifying systems) and drug absorption
- Conversion of liquid into solid dosage form
- Spray drying and fluid bed coating techniques
- FDM 3D designed printed dosage form
- Respirable particulate carriers for pulmonary drug delivery systems

CURRENT RESEARCH PROJECTS

RDIA project 2025-1.6m SR "Title: Respirable Particulate Carriers for Pulmonary Delivery of Hepatitis B Vaccine"; RSP, Saudi Arabia. PI; Institutional funding; Graduate Students Research Grant in Health Colleges (Pilot grant) by Saudi NIH in 2023; Formulation and Evaluation of self-nanoemulsifying formulation for Oral Insoluble Drug Delivery systems. For more info, please visit: https://faculty.ksu.edu.sa/en/mkazi

METHODOLOGY/METHODS USED IN RESEARCH

Liquid SNEDDS Design for Poorly soluble drugs; Conversion technique by adsorption method (Liquid SNEDDS to Solid SNEDDS); Solid SNEDDS design by fluid bed coating technique; Combined solid SNEDDS design for capsule in capsule delivery systems; FDM 3D-printed SNEDDS Tablet design for combination therapy

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/B-4417-2010#
- **ORCID:** https://orcid.org/0000-0002-5611-0378
- **Google Scholar:** https://scholar.google.co.in/citations?hl=en&view_op

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug design and synthesis; Drug formulation and delivery; Medication safety; Pharmaceutical/health outcomes; Pharmaceutical nanotechnolog; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Analytical and bioanalytical analysis
- HPLC and mass tandem
- Drug formulation and delivery nanotechnology for in soluble drugs
- Characterization in vitro and in vivo

CURRENT RESEARCH PROJECTS

- Formulation for daclatasvir
- Analytical analysis for sertraline

METHODOLOGY/METHODS USED IN RESEARCH

Nanotechnology method using HPLC or mass tandem

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/S-9099-2016
- **ORCID:** https://orcid.org/0000-0003-3843-0586
- **Google Scholar:** https://scholar.google.com/citations?user=KV52fyMAAAAJ&hl=ar&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Medication safety; Molecular biology; Molecular pharmacology and toxicology; Pharmaceutical biotechnology; Pharmaceutical/health outcomes; Pharmaceutical nanotechnology; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.); Cancer drug targeting

RESEARCH INTERESTS AND GOALS

Prof. Harisa has academic and practical experience in the field of biochemistry, molecular biology, nanobiology, and drug delivery. HIs research is concerned with developing bioinspired drug delivery systems (Lipid-based drug delivery systems, Lipoproteins, Nanovesicles, Exosomes, Nanoparticles, and Erythrocytes).

CURRENT RESEARCH PROJECTS

- Drug targeting to hepatocellular carcinoma
- Drug repurposing to overcome drug resistant cancer cell
- Ferroptosis as potential target for improve chemotherapeutics outcomes

METHODOLOGY/METHODS USED IN RESEARCH

During his scientific career, Harisa developed advanced techniques and research protocols related to preparation and characterization of nanoparticles to improve biosafety of drug delivery systems, alongside to reduce the adverse effects of medicines.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/GYA-2245-2022
- **ORCID:** https://orcid.org/0000-0002-7988-4421
- **Google Scholar:** https://scholar.google.com/citations?user=Hr84fbIAAAAJ&hl

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical nanotechnology; Pharmaceutical; quality control; drug targeting

RESEARCH INTERESTS AND GOALS

- Pharmaceutical formulations and technology
- Pharmaceutical nanotechnology
- Pharmaceutical drug targeting
- Pharmaceutical drug delivery

CURRENT RESEARCH PROJECTS

Pharmaceutical nano formulations and drug delivery

METHODOLOGY/METHODS USED IN RESEARCH

All methods for pharmaceutical drug formulations; All the techniques for characterization of the drug loading formulations; ex vivo and in vivo drug pharmacokinetics and biopharmaceutics

LINK TO PUBLISHED WORK

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College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control; Pharmacokinetics and computational modeling; Advanced pharmaceutical technologies; 3D printing and bioprinting

RESEARCH INTERESTS AND GOALS

Advanced pharmaceutical technologies; 3D printing of pharmaceuticals; Nanomedicine for targeted drug delivery; AI-driven drug formulation and optimization; Personalized medicine and dosage forms; Tissue engineering and bioprinting; Regulatory aspects of pharmaceutical product development

CURRENT RESEARCH PROJECTS

- Development of personalized 3D-printed microneedle systems for topical treatment
- Personalized 3D-printed tablets
- Antimicrobial electrospun nanofibers for topical application
- AI-optimized design of 3D-printed drug delivery systems

METHODOLOGY/METHODS USED IN RESEARCH

3D printing of pharmaceuticals (FDM, SLA, SLS, SSE); Electrospinning for nanofiber fabrication; Nanoparticle-based drug delivery systems; Pharmaceutical formulation and characterization; Cell culture and tissue engineering; Tissue handling and preparation, histological analysis, and microscopy techniques

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0003-4309-2155
- **Google Scholar:** https://scholar.google.com/citations?user=3u4rLKIAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Pharmaceutical biotechnology; Pharmaceutical microbiology; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.)

RESEARCH INTERESTS AND GOALS

Antimicrobial & Anti-Virulence Strategies; Pharmaceutical Microbiology & Formulation Science; Integrated Pharmaceutical Education; Interdisciplinary Translational Research; Metaanlysis and systematic reviews

CURRENT RESEARCH PROJECTS

1. Developing and modifying bacterial systems to optimize the production of bioactive compounds and to serve as model systems for testing novel antimicrobial strategies; 2. Investigating the mechanisms of biofilm formation and identifying inhibitors that can disrupt these protective matrices, thereby reducing bacterial virulence and resistance; 3. Utilizing computational molecular modelling and bioinformatics tools to predict and analyze the interactions between antimicrobial agents (including bacteriocins and peptides) and their bacterial targets, enabling the rational design of effective therapeutics; 4. 3D Printing Applications: Integrating 3D printing technologies to fabricate customized models and delivery platforms that mimic biological environments, facilitating advanced studies of biofilm dynamics and targeted drug delivery; 5. Bacteriocins & Antimicrobial Peptides: Screening, characterizing, and optimizing naturally derived bacteriocins and antimicrobial peptides as promising candidates for next-generation antimicrobial therapies. For more info, please visit: https://faculty.ksu.edu.sa/en/ralfaraj

METHODOLOGY/METHODS USED IN RESEARCH

DNA, RNA, protein technology; antimicrobial and antivirulence assays; cell culture; cellular NMR

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/KIG-2329-2024
- **ORCID:** https://orcid.org/0009-0007-2376-2576
- **Google Scholar:** https://scholar.google.com/citations?user=Qs3V0nEAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical/health outcomes; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Formulation Development
- Assay development
- Nanotechnolgy
- Quality control

CURRENT RESEARCH PROJECTS

- Formulation Development
- Assay development

METHODOLOGY/METHODS USED IN RESEARCH

Nanotechnology; Proniosome; micro and nanosponge; Tableting; in situ gel; Biosdhesive topical film

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ACN-2651-2022
- **ORCID:** https://orcid.org/0000-0002-1276-2665
- **Google Scholar:** https://scholar.google.com/citations?user=umeR-Y4AAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical/health outcomes; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Soubility determination and computational modeling
- Pharmaceutical nanomedicine
- Addanved drug delivery systems
- Nanotechnology for drug delivery
- Pharmaceutical analysis method development and validation

CURRENT RESEARCH PROJECTS

- Development of polymeric nanoparticles for anticancer drug delivery
- Development of metal nanoparticles for biomedical applications
- Development of drug-drug cocrystals for solubility enhancement

METHODOLOGY/METHODS USED IN RESEARCH

HPLC; HPTLC; DSC; Particle size analyzer; Zeta potential analyzer

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ABF-2218-2020
- **ORCID:** https://orcid.org/0000-0002-6109-0885
- **Google Scholar:** https://scholar.google.com/citations?user=yox8ovEAAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Pharmaceutical technologies
- Pharmaceutical Nanotechnology
- Formulation and delivery of novel pharmaceutical dosage forms
- Drug targeting
- Improvement of drug physicochemical properties and bioavailability.

CURRENT RESEARCH PROJECTS

- Development and characterization of antifungal topical gels
- Formulation and evaluation of self-nanoemulsifying drug delivery systems of an antifungal drug

METHODOLOGY/METHODS USED IN RESEARCH

Formulation of novel Pharmaceutical dosage forms adopting several techniques; Particle size and zeta potential measurements by ZetaSizer; Differential Scanning Calorimetry; Fourier Transform Infra Red; X-Ray Diffraction; Scanning electron microscopy; Statistical Analysis

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0003-4398-2510

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AREAS OF EXPERTISE AND RESEARCH

Drug formulation and delivery; Pharmaceutical biotechnology; Pharmaceutical nanotechnology

RESEARCH INTERESTS AND GOALS

- Pharmaceutical Technology
- Pharmaceutical Biotechnology
- Drug Delivery
- Controlled Drug Release
- Biosimilars
- Cancer Diagnosis and Treatment
- Targeted Drug Delivery

CURRENT RESEARCH PROJECTS

- Development of biopolymer-based Nanosized γ-Fe2O3 Composites as Adsorbents for Removal of Water Pollutants
- Development and Evaluation of Angiopep
- Modified Mesoporous Silica Nanocarriers for Nose-to-Brain Delivery of Temozolomide in the Treatment of Glioma

METHODOLOGY/METHODS USED IN RESEARCH

All methods related to the current research interests/projects

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/a/3119378
- **ORCID:** https://orcid.org/0000-0001-5288-5953
- **Google Scholar:** https://scholar.google.com/citations?user=ibrahimalsarra&user=MMh70ssAAAAJ

Pharmacognosy Department

Last updated I Oct 2025

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Pharmaceutical quality control; Pharmacy regulatory affairs

RESEARCH INTERESTS AND GOALS

Chemistry, efficacy, safety and quality of natural products

CURRENT RESEARCH PROJECTS

Chemistry, efficacy, safety and quality of natural products commonly consumed and widely distributed in Saudi Arabia

METHODOLOGY/METHODS USED IN RESEARCH

UPLC-MS; HPTLC; Column chromatography; molecular modelling; 1D and 2D NMR; CD; UV; IR; HR-ESI-MS

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAC-6779-2019
- **ORCID:** https://orcid.org/0000-0002-0262-7101
- **Google Scholar:** https://scholar.google.com/citations?user=ezeAzJ4AAAAJ&hl=ar

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Molecular biology; Natural product discovery and evaluation; Pharmaceutical microbiology; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Focus on the genome-guided discovery of novel 'anti-resistant' agents through bioinformatics and genomics to address Extended Spectrum Beta-Lactamase (ESBL) and Metallo-Beta-Lactamase (MBL) in local clinical isolate bacteria
- Explore the interactions between various classes of antibiotics and Beta-Lactamase resistant bacterial pathogens to improve treatment efficacy and reduce the development of antibiotic resistance.

CURRENT RESEARCH PROJECTS

- Bioinformatics Guided Engineering of Flavonoids Combat Beta-Lactamase Resistant Bacterial in Clinical Isolates
- Exploring Terrestrial and Marine Fungi for New Anticancer Agents from Saudi Arabia's Ecosystem (with KAIMRC)

METHODOLOGY/METHODS USED IN RESEARCH

Genomic and Bioinformatics Techniques; Proteomics and Molecular Docking; Genetic Engineering and Microbiology; Chromatography and Analytical Chemistry

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/GXZ-7993-2022
- **ORCID:** https://orcid.org/0009-0000-2565-6573
- **Google Scholar:** https://scholar.google.com/citations?authuser=2&hl=en&user=3QH9NSEAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Herbal medicine; Molecular biology; Natural product discovery and evaluation; Pharmaceutical quality control

RESEARCH INTERESTS AND GOALS

- Safety and efficacy of natural health products In the management of aging-related cardiovascular diseases and diabetic complications
- The mechanism of natural compounds in apoptosis dysregulation
- Quality control and pharmacovigilance of nutraceuticals and skincare preparations.

METHODOLOGY/METHODS USED IN RESEARCH

Flow Cytometry; Western blot; HPLC/UPLC

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAA-1650-2019
- **ORCID:** https://orcid.org/0000-0002-1034-7441

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Herbal medicine; Natural product discovery and evaluation; Pharmaceutical biotechnology; Phytochemistry; Cosmetics

RESEARCH INTERESTS AND GOALS

- Isolation, identification, structure elucidation, and evaluation of biologically active metabolites from natural sources
- Synthetic modification of natural products.

CURRENT RESEARCH PROJECTS

Isolation, identification, structure elucidation, and evaluation of biologically active metabolites from Saudi plants.

METHODOLOGY/METHODS USED IN RESEARCH

Organic synthesis; Chromatography; IR, NMR, UV spectroscopy; Mass spectrometry

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/HPD-6108-2023?state=%7B%7D
- **ORCID:** https://orcid.org/my-orcid?orcid=0000-0003-3013-1354
- **Google Scholar:** https://scholar.google.com/citations?user=zp29JmQAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Pharmaceutical nanotechnology; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Investigation of natural products derived from both marine and terrestrial sources
- Scientific assessment of natural products for common diseases such infectious disorders and cancer

CURRENT RESEARCH PROJECTS

Study of the biological activity and chemistry of marine natural products

METHODOLOGY/METHODS USED IN RESEARCH

Biological screnning; extraction; isolation and purification using different chromatographic techniques; strctural elucidation; semisynthesis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Scopus /ORCID ID: 7006526436
- **ORCID:** 7006526436
- **Google Scholar:** https://scholar.google.com/citations?user=OAnJVR0AAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Herbal medicine; Molecular biology; Pharmaceutical biotechnology; Virology and antivirals

RESEARCH INTERESTS AND GOALS

- Natural product therapeutics research
- Assesing natural antiviral molecules in cell culture model
- Computational modeling and drug discovery

CURRENT RESEARCH PROJECTS

- Natural product therapeutics research
- Assesing natural antiviral molecules in cell culture model
- Computational modeling and drug discovery

METHODOLOGY/METHODS USED IN RESEARCH

In vitro bioassays; Cell culture-based antiviral and anti-cancer assays

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- **Google Scholar:** https://scholar.google.com/citations?user=W44vDkgAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Herbal medicine; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Exploring synergistic of combining herbal medicine with nanotechnology to enhance cytotoxicity on cancer cells
- Natural products discovery and evaluation

CURRENT RESEARCH PROJECTS

- Studying the use if nanotechnology to enhance the cytotoxic effect of the herbal medicines on cancer cells
- Developing targeted drug delivery systems using nanocarriers for herbal extracts
- Investigating the interactions between nanoparticles and herbal compounds in cancer treatment
- Natural products discovery and evaluation

METHODOLOGY/METHODS USED IN RESEARCH

Cell cultures assays to assess cytotoxicity; nanoparticles synthesis and characterization using techniques as UV, Ir, TEM, SEM, EDX, XRD and DLS; Molecular Biology techniques as MTT, ROS and NRU for mechanistic studies; Plant extraction, isolation and characterization of natural products using different chromatography techniques and spectroscopy techniques as UV, IR and NMR

LINK TO PUBLISHED WORK

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AREAS OF EXPERTISE AND RESEARCH

Herbal medicine; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Extraction, fractionation, isolation, and purification of bioactive secondary metabolites
- Structure elucidation and characterization of natural product compounds
- Synthesis of nanoparticles derived from natural products

CURRENT RESEARCH PROJECTS

- Studying the application of nanotechnology to enhance the cytotoxic effects of herbal compounds on cancer cells
- Developing targeted drug delivery system using nanocarriers for herbal extracts
- Investigating the interactions between nanoparticles and herbal compounds in cancer treatment

METHODOLOGY/METHODS USED IN RESEARCH

Cell culture assays to assess the cytotoxicity; Nanoparticle synthesis and characterization using techniques like UV,IR, TEM, SEM,EDX,XRD and DLS; Molecular biology techniques such as MTT , NRU and ROS for mechanistic studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://ResearchID.co/rid103629
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AREAS OF EXPERTISE AND RESEARCH

Herbal medicine; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Natural Products separation and purification by different chromatographic techniques
- Bioassay guided fractionation
- Structural elucidation by spectroscopic analysis techniques
- Molecular docking studies
- Green synthesis of nanoparticles using plant extracts and isolated compounds

CURRENT RESEARCH PROJECTS

Isolation and characterization of bioactive principles from selected saudi plants and in vitro cytotoxicity evaluation

METHODOLOGY/METHODS USED IN RESEARCH

Different chromatographic techniques; spectroscopic analysis techniques; molecular docking studies; green synthesis of nanoparticles

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** GZN-1074-2022
- **ORCID:** 0000-0002-6298-7205
- **Google Scholar:** https://scholar.google.com/citations?user=wZGAvc4AAAAJ&hl=ar

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Herbal medicine; Molecular biology; Natural product discovery and evaluation; Pharmaceutical nanotechnology; Phytochemistry

RESEARCH INTERESTS AND GOALS

Exploring the synergistic effects of combining herbal compounds with nanotechnology to enhance cytotoxicity on cancer cells; Developing novel nanocarriers for targeted delivery of herbal extracts; Investigating the mechanisms of action of herbal-nanoparticle interactions; Advancing personalized cancer treatment strategies through the integration of herbal medicine and nanotechnology

CURRENT RESEARCH PROJECTS

- Studying the use of nanotechnology to enhance the cytotoxic effects of herbal compounds on cancer cells
- Developing targeted drug delivery systems using nanocarriers for herbal extracts
- Investigating the interactions between nanoparticles and herbal compounds in cancer treatment
- Exploring the potential of nanotechnology in optimizing the efficacy of herbal-based therapies for cancer

METHODOLOGY/METHODS USED IN RESEARCH

Cell culture assays to assess cytotoxicity; Nanoparticle synthesis and characterization using techniques like UV, IR, TEM, SEM, EDX,XRD and DLS; Molecular biology techniques such as MTT, NRU and ROS for mechanistic studies

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABD-1605-2020
- **ORCID:** https://orcid.org/0000-0003-1310-3351
- **Google Scholar:** https://scholar.google.com/citations?user=t5FYuMcAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug design and synthesis; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Separation sciences: Well-versed with various chromatographic (LCMS-QTOF, GCMS, HPLC) for separation and identification of multiple analytes
- Bioanalysis: Metabolite Study of organic ligands, drug analysis, cosmeceutical analysis & nutraceutical analysis
- Hands-on Synthetic Chemistry: Synthesis of organic ligands having biological significance, their coordination compounds using various metal ions
- Synthesis of novel nanomaterials as a drug delivery carrier

CURRENT RESEARCH PROJECTS

Saudi Plants Phytochemistry and their Detailed Biological Activity

METHODOLOGY/METHODS USED IN RESEARCH

LCMS-QTOF; GCMS; HPLC

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/GVU-4691-2022
- **ORCID:** https://orcid.org/0000-0001-9769-2557
- **Google Scholar:** https://scholar.google.com/citations?user=xMNHbFAAAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Herbal medicine

RESEARCH INTERESTS AND GOALS

- Quality control of herbal drugs
- Phytoformulations and their evaluation
- Natural product isolation and bioactivity
- In silico design for the activity of natural product

CURRENT RESEARCH PROJECTS

Isolation and biological evaluation of compounds from Argyrolobium arabicum

METHODOLOGY/METHODS USED IN RESEARCH

TLC; column chromatography; HPTLC; HPLC

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAI-3897-2021
- **ORCID:** https://orcid.org/0000-0003-0668-2236

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Analytical and bioanalytical analysis; Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Phytochemistry; Herbal medicine; Phytochemistry; Natural product discovery and evaluation

RESEARCH INTERESTS AND GOALS

- Isolation and characterization of bioactive natural compounds
- Discovery of new antimicrobial, antiprotozoal, anti-inflammatory and anticancer agents from medicinal plants
- Pharmacological evaluation of traditional herbal medicines
- Metabolomic and phytochemical profiling of medicinal plants
- Molecular mechanisms of natural products in disease treatment

CURRENT RESEARCH PROJECTS

- Discovery of antimicrobial, anticancer, and antioxidant agents from natural sources
- Exploring the Neuroprotective Potential of Saudi Medicinal Plants
- Pharmacological evaluation of traditional herbal medicines for therapeutic applications
- Extraction, chemical profiling, and biological activities of essential oils
- Development of essential oil-based formulations for pharmaceutical and therapeutic applications

METHODOLOGY/METHODS USED IN RESEARCH

Extraction and isolation of bioactive compounds from natural sources; Chromatographic techniques (HPLC, GC-MS, TLC, and column chromatography); Structural elucidation using spectroscopic methods (NMR, MS, UV, IR). For more info, please visit: https://faculty.ksu.edu.sa/ar/rmothana

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** D-8740-2015
- **ORCID:** http://orcid.org/0000-0003-4220-7854
- **Google Scholar:** https://scholar.google.com/citations?user=UihW5pcAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Pharmaceutical microbiology; Phytochemistry

RESEARCH INTERESTS AND GOALS

Drug Discovery & Development – Identifying novel bioactive compounds for therapeutic applications; Computational Chemistry – Applying molecular modeling and simulations in drug design; assisting pharmacological activity of natural components; Microbiology & Infectious Diseases – Studying natural microbial diversity; investigating antibiotic resistance; developing novel antimicrobial agents; Bioactive Marine Natural Products – Discovering marine-derived compounds; investigating marine biodiversity for novel therapeutics; Secondary Metabolites of Fungi – Exploring fungal metabolites for pharmaceuticals; understanding biosynthetic pathways; Structure Determination – Utilizing spectroscopic techniques for molecular analysis; Cytotoxic Compounds – Identifying and evaluating natural compounds with anticancer potential; Clinical Studies on Natural Product Applications – Assessing safety and efficacy; conducting clinical trials; translating research into evidence-based medicine

CURRENT RESEARCH PROJECTS

- Identifying natural compounds from Saudi flora for diabetes treatment and management
- Exploring fungal metabolites from natural Saudi flora for pharmaceuticals and infectious diseases

METHODOLOGY/METHODS USED IN RESEARCH

For more info, please visit: https://faculty.ksu.edu.sa/en/rorfali

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ABD-1756-2020
- **ORCID:** 0000-0002-9421-4127
- **Google Scholar:** Raha Orfali - Google Scholar

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Herbal medicine; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Medicinal Plants
- Natural Products
- Phytochemistry
- Phytoterapy

CURRENT RESEARCH PROJECTS

Clinical trial in plant-based formulation

METHODOLOGY/METHODS USED IN RESEARCH

Phytochemistry; phytotherapy; NMR; HPLC; chromatography

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Drug discovery and computational modeling; Drug of abuse/behavioral pharmacology; Herbal medicine; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Isolation of bioactive plant constituents using advanced chromatographic techniques
- Elucidation of chemical structures using spectroscopic methods
- Investigating the therapeutic potential of natural products
- Developing novel phytochemical-based treatments for various diseases
- Enhancing the understanding of plant-based pharmaceuticals and their applications

CURRENT RESEARCH PROJECTS

I am currently engaged in the development of innovative drug delivery systems specifically designed for natural products. These advanced systems aim to enhance the therapeutic efficacy and bioavailability of natural compounds, providing more effective treatments for a variety of diseases. My research focuses on optimizing these delivery mechanisms to ensure targeted and controlled release, thus improving patient outcomes and enriching the field of natural product-based therapeutics

METHODOLOGY/METHODS USED IN RESEARCH

Advanced chromatographic techniques for isolation of bioactive compounds; Spectroscopic methods for chemical structure elucidation; Phytochemical profiling; Antimicrobial and antioxidant activity testing

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0002-3640-9612
- **Google Scholar:** https://scholar.google.com/citations?hl=ar&authuser=1&user=dQsLXHsAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Pharmaceutical quality control; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Phytochemical investigation of medicinal plants
- Herbal drug standardization
- Formulation and evaluation of herbal drugs
- Biological investigation of herbal extracts and pure isolated compounds

CURRENT RESEARCH PROJECTS

- Application of herbal formulation in treatment of cancer
- In silico approach for the prevention and treatment of cancer and cardiac disorders
- Phytochemical and hepatoprotective activity of Arzyrolobium arabicum

METHODOLOGY/METHODS USED IN RESEARCH

Column chromatography for isolation; HPLC and HPTLC chromatography for analysis; use of software for the insilico studies

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Herbal medicine; Natural product discovery and evaluation; Pharmaceutical quality control; Phytochemistry; Quality control of Herbal Medicines

RESEARCH INTERESTS AND GOALS

- Quality control and standardization of herbal medicines
- Preparing methods of extract concentrates
- Establishing effective use of local herbs for various diseases

CURRENT RESEARCH PROJECTS

- Vegetation Coverage Development Project by National Centre for Vegetation Cover Development and Combating Desertification
- Improving the yield of Taif roses by applying modern and accessible techniques in the extraction of oils and its manufacturing industries by Ministry of Environment, Water & Agriculture

METHODOLOGY/METHODS USED IN RESEARCH

Analytical Methods such as HPTLC, UV, IR etc.; Biological methods such as Anti-inflammatory, antimicrobial, Anticonvulsant, etc.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Web of Science Researcher ID: AEG-6107-2022; Scopus Author ID: 36747003600
- **ORCID:** https://orcid.org/0000-0003-1551-7750
- **Google Scholar:** https://scholar.google.com/citations?user=syartfsAAAAJ&hl=en

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KSU webpage: https://faculty.ksu.edu.sa/ar/sqasoumi

AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Herbal medicine; Natural product discovery and evaluation; Pharmaceutical quality control; Phytochemistry

RESEARCH INTERESTS AND GOALS

Natural products separation (marine and higher plants), structural elucidation, bioassay guided fractionation and structural modification; Different kind of chromatography for separation and analytical techniques such as LC, HPLC (analytical and preparative), GC and gel permeation; Spectroscopic analysis using IR, UV, MS, 1D-NMR (1H, 13C-NMR) and 2D-NMR (Including COSY, NOESY, HSQC and HMBC). In addition, the ability for measurement on NMR machine; The applications of analytical tools in evaluation of quality and safety of dietary supplements, fingerprinting and standardization of marker compounds in medicinal plant products, optimization of large scale extraction and isolation of natural products of commercial value; Drug discovery and development from ethnomedicine; Analysis of controlled substances and food products (fresh, processed and canned); Analysis of the volatile oils from the aromatic plants to evaluate their uses in the field of nutrients and cosmetics

CURRENT RESEARCH PROJECTS

- Natural products separation, structural elucidation, bioassay guided fractionation and structural modification
- Analysis of controlled substances and food products (fresh, processed and canned)
- The applications of analytical tools in evaluation of quality and safety of dietary supplements, fingerprinting and standardization of marker compounds in medicinal plant products, optimization of large scale extraction and isolation of natural products of commercial value.

METHODOLOGY/METHODS USED IN RESEARCH

Spectroscopic analysis using IR, UV, MS, 1D-NMR (1H, 13C-NMR) and 2D-NMR (Including COSY, NOESY, HSQC and HMBC); In addition, the ability for measurement on NMR machine

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Phytochemistry; Biotechnology

RESEARCH INTERESTS AND GOALS

Antidiabetic plant

CURRENT RESEARCH PROJECTS

Antidiabetic plant

METHODOLOGY/METHODS USED IN RESEARCH

Isolation of novel compounds from antidiabetic plant

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Quality control and regulation of herbal products
- Phytochemical analysis and standardization of medicinal plants
- Isolation and structure elucidation of active constituents from medicinal plants
- Innovative approaches to ensuring herbal product safety and efficacy
- Green synthesis of bioactive compounds and nanoparticles

CURRENT RESEARCH PROJECTS

- Phytochemical profiling and standardization of selected medicinal plants
- Isolation and structural characterization of bioactive compounds from Saudi medicinal plants
- Green synthesis of nanoparticles using plant-based extracts.

METHODOLOGY/METHODS USED IN RESEARCH

Phytochemical analysis (Extraction, fractionation, and chromatography); Spectroscopic techniques (UV-Vis, FTIR, NMR, MS) for structural elucidation; Chromatographic techniques (HPLC, GC-MS, TLC) for compound separation and identification

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0002-5313-7153
- **Google Scholar:** https://scholar.google.com/citations?user=XxFxmSoAAAAJ

DR. TAGHREED ABDOU IBRAHIM

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AREAS OF EXPERTISE AND RESEARCH

Analytical and bioanalytical analysis; Drug discovery and computational modeling; Herbal medicine; Molecular biology; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

Exploration of bioactive compounds from medicinal plants for therapeutic applications; Development and optimization of extraction and isolation techniques for natural products; Investigation of traditional medicine systems and their integration into modern healthcare; Study of plant-derived compounds for antimicrobial, anti-inflammatory, and anticancer properties; Collaboration with interdisciplinary teams to translate pharmacognostic research into clinical applications; Education and training of students in pharmacognosy and natural products chemistry; Publication and dissemination of research findings to advance the field of pharmacognosy and natural products.

CURRENT RESEARCH PROJECTS

- Isolation and characterization of novel anticancer agents from epiphytes.
- Study of the anti-diabetic potential of bioactive fractions extracted from indigenous plant species
- Collaborative research on the synergistic effects of plant polyphenols with existing antibiotics
- Development of a natural product-based skincare line focusing on anti-aging properties
- Efficacy testing of herbal formulations in pain management and inflammatory disorders

METHODOLOGY/METHODS USED IN RESEARCH

For more information please visit: https://faculty.ksu.edu.sa/ar/Dr.Taghreed

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** GZA-7760-2022
- **ORCID:** http://orcid.org/0000-0002-5165-4253
- **Google Scholar:** https://scholar.google.com/citations?user=gpV7TzYAAAAJ&hl=ar

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Herbal medicine; Natural product discovery and evaluation

RESEARCH INTERESTS AND GOALS

- Natural product chemistry, isolation of plant bioactive constituents using advanced chromatographic techniques and elucidation of their structure using different chemical and spectroscopic methods
- Isolation of essential oils from plant origin and its chemical compositions analysis. Study of different biological activities for various active principles isolated from plants such as anti-inflammatory, cytotoxicity, antimicrobial, antioxidant, and other substances

CURRENT RESEARCH PROJECTS

Biological studies for some saudi plants extract

METHODOLOGY/METHODS USED IN RESEARCH

All chromatographic techniques; clevengar apparatus; UV spectroscopy

LINK TO PUBLISHED WORK

- **ORCID:** https://sciprofiles.com/profile/470102

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Herbal medicine; Natural product discovery and evaluation; Phytochemistry

RESEARCH INTERESTS AND GOALS

- Marine Natural products
- Terrestrial Natural Products
- Evidence-based herbal medicine
- Conversion of biowastes to dietary supplements/fine chemicals
- Structural elucidation
- Chromatographic separation and identification

CURRENT RESEARCH PROJECTS

- Bioactive Natural products
- Evidence-based herbal medicine

METHODOLOGY/METHODS USED IN RESEARCH

Extraction; Chromatographic separation; Spectroscopic measurements; Structure elucidation; Benchtop assays

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** D-2381-2013
- **ORCID:** 0000-0003-1224-8428
- **Google Scholar:** https://scholar.google.com/citations?user=FmfAGzUAAAAJ&hl=en

College of Pharmacy Faculty Booklet

Pharmacology & Toxicology Department

Last updated I Oct 2025

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

- Study the effect of senescence clearance in aged mice and in young adult mice with cardiac injury
- Discover interventions that contribute to healthy ageing

CURRENT RESEARCH PROJECTS

I am currently developing in vivo models that facilitate studying cardiac injury and senescence

METHODOLOGY/METHODS USED IN RESEARCH

Immunohistochemistry/Immunofluorescence; In vivo skills including SubQ, and intraperitoneal injections, echocardiography, oral gavage, sample collection, and heart perfusion; Imaging using confocal and light microscopy; qPCR

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/LMQ-0560-2024

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Molecular biology; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

Myprofessional interests are focused around: Cell signalling particularly G-protein coupled receptors (GPCRs) mediated intracellular calcium signalling and the impact of this on neurotransmitter release. Modulation of neurotransmitter release by ionotropic nicotinic receptors and Gaq/11 coupled receptors may be essential for events such as regulation of cardiovascular function and thestress response is a major focus of my research. For more information please visit: https://faculty.ksu.edu.sa/ar/node/151642

CURRENT RESEARCH PROJECTS

- Metformin-mediated protection against Immunosenescence in diabetic cardiomyopathy: The potential roles of GDF-15 and klotho proteins
- Macrophage Depletion Alleviates Immunosenescence in Diabetic Kidney by Modulating GDF-15 and Klotho
- Metformin prevents diabetes-driven kidney senescent via immunomodulation and FABP4/FOXO1 axis
- Modulating inflammation and angiogenesis: The role of macrophage depletion and angiopoietin-like protein 2 signaling in diabetic cardiomyopathy
- Implication of G protein-coupled receptor kinase-2 in macrophage-mediated inflammation in diabetic cardiomyopathy: A potential mechanism?
- For more information please visit: https://faculty.ksu.edu.sa/ar/node/151642

METHODOLOGY/METHODS USED IN RESEARCH

For more information please visit: https://faculty.ksu.edu.sa/ar/node/151642

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons)**: GYQ-7011-2022; https://sciprofiles.com/profile/2279611
- **ORCID:** https://orcid.org/0000-0001-5283-1576
- **Google Scholar:** https://scopus.com/authid/detail.uri?authorId=57201650768

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular biology; Molecular pharmacology and toxicology; Neuropharmacology

RESEARCH INTERESTS AND GOALS

- Delineation of novel pathways in causation of inflammatory/autoimmune disorders such as rheumatoid arthritis, asthma, psoriasis, multiple sclerosis, autism
- Targeting of inflammatory pathways for the improvement of autoimmune disorders such as asthma, psoriasis, multiple sclerosis

CURRENT RESEARCH PROJECTS

Role of protein tyrosine kinases signaling in autoimmune diseases

METHODOLOGY/METHODS USED IN RESEARCH

Assays for oxidative stress and antioxidants; Assays for flow cytometry; In vivo murine models of pulmonary inflammation; In vivo murine models of psoriasis, multiple sclerosis and autism

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

Cardiovascular and cancer cell signalling; drug pharmacology and toxicology; chronic diseases; infectious disease; aging; genetics

CURRENT RESEARCH PROJECTS

- Cardiovascular projects
- Cancer projects

METHODOLOGY/METHODS USED IN RESEARCH

PCR; histopathological Analysis; Western Blot; Analysis; Biochemical Serum Analysis

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/op/publications/summary
- **ORCID:** https://orcid.org/0000-0002-8452-4789
- **Google Scholar:** https://scholar.google.co.uk/citations?user=xbo2gpQAAAAJ&hl=ar

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Neuropharmacology; toxicological risk assessment

RESEARCH INTERESTS AND GOALS

Orphan GPCRs (oGPCRs) in neurological diseases

CURRENT RESEARCH PROJECTS

- The impact of some neurological diseases on the oGPCRs
- Toxicological assessment of some oGPCRs ligands

METHODOLOGY/METHODS USED IN RESEARCH

Human and animal preclinical studies; Quantitative polymerase chain reaction (qPCR); Antibody array; Immunohistochemistry (IHC); SDS-PAGE western blot (SDS-PAGE WB); Behavioural tests for animals

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular pharmacology and toxicology; Neuropharmacology

RESEARCH INTERESTS AND GOALS

To manage the balance between GABA and Glutamate at some neurodegenerative diseases

CURRENT RESEARCH PROJECTS

Anxiolytic effect of some compounds to balance Glutamate flushing

METHODOLOGY/METHODS USED IN RESEARCH

Immunohistochemisrty of certain proteins; Addiction behavioural assay; Wound healing

DR. MOHAMMED MASHARI ALMUTAIRI

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Forensic medicine/toxicology; Molecular biology; Molecular pharmacology and toxicology; Neuropharmacology; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

- Identifying and developing promising therapeutic approaches to rescue cells from different abnormal conditions (e.g., hyperglycemia, inflammation, oxidative stress, trace metal toxicity, etc.)
- Understanding mitochondrial theory of aging and implementing interventional approaches to delay mitochondrial aging and extend longevity

CURRENT RESEARCH PROJECTS

- Investigating neuroprotective effects of novel compounds against aging-related cellular damage
- Assessing cytotoxicity of heavy metals (e.g. arsenic and iron) in its various states on in-vitro models

METHODOLOGY/METHODS USED IN RESEARCH

Cell culture; Animal surgery; Cytotoxicity assessment assay; Oxidative stress assessment assay; Mitochondrial function assay

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ABC-7034-2020
- **ORCID:** https://orcid.org/0000-0002-0850-1147
- **Google Scholar:** https://scholar.google.com/citations?user=NKfHe64AAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular pharmacology and toxicology; Neuropharmacology

RESEARCH INTERESTS AND GOALS

- Explore the potential of cannabinoid-based therapies and their behavioral, neurochemical, and molecular impacts in combating various diseases
- Studying the interactions between the endocannabinoid system and other systems involved in pain, reward, and addiction pathways, such as the opioid system
- Examines how different drugs of abuse differentially alter brain neurochemical signatures to impact behavior
- Identifying novel pharmacotherapies that reduce the adverse effects and abuse liability of opioids while retaining their analgesic effects

CURRENT RESEARCH PROJECTS

- Enhancing the endocannabinoid (2-AG) as a strategy for treating chronic wound healing in type-2 diabetes rats
- Behavioral and neurochemical effects of novel cannabinoid ligands alone and in combination with fentanyl

METHODOLOGY/METHODS USED IN RESEARCH

Pain behavior in rodents; General behaviors in rodents; Operant based behaviors (Drug discrimination, CPP); Brain micro dialysis in rodents; PCR, western blotting and immunohistochemistry

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/KDO-5598-2024
- **ORCID:** https://orcid.org/0000-0002-4888-0698
- **Google Scholar:** https://scholar.google.com/citations?user=0ajVFN4AAAAJ&hl=en

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Herbal medicine; Molecular pharmacology and toxicology; Neuropharmacology; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

I am working on understanding the potential protective mechanisms of natural antioxidants and chemical drugs against toxicants-induced injuries for multiple body organs using animal model.

CURRENT RESEARCH PROJECTS

Toxicological studies of pharmacological agents

METHODOLOGY/METHODS USED IN RESEARCH

Animal model; Immunohistochemistry.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AEV-7541-2022
- **ORCID:** https://orcid.org/0000-0003-2905-8882
- **Google Scholar:** https://scholar.google.com/citations?view_op=list_works&hl=en&user=RI0TXDsAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Molecular biology; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Pharmacogenetics and pharmacogenomics

RESEARCH INTERESTS AND GOALS

Hypertension & RAAS; Investigating the molecular mechanisms of hypertension with a focus on the renin-angiotensin-aldosterone system (RAAS) and its role in cardiovascular regulation; Oxidative Stress in Diabetes; Exploring the impact of oxidative stress on diabetes progression and its contribution to vascular dysfunction; Inflammation in Disease – Understanding the role of chronic inflammation in metabolic and cardiovascular diseases. For more information please visit: https://faculty.ksu.edu.sa/en/azalanazi

CURRENT RESEARCH PROJECTS

- Angiotensin III & Cardiovascular Diseases
- Liposomal Resveratrol & Diabetes Mellitus – Evaluating the therapeutic potential of liposomal resveratrol in improving metabolic health and managing diabetes
- Induced Acute Liver Inflammation by LPS & Testing Synthetic and Natural Products – Investigating the role of lipopolysaccharide (LPS) in inducing acute liver inflammation and exploring the therapeutic potential of synthetic and natural products in mitigating this inflammation
- Dasatinib Toxicity & Naringenin – Studying dasatinib-induced toxicity in cancer patients and exploring naringenin's potential to counteract these harmful effects.

METHODOLOGY/METHODS USED IN RESEARCH

In Vitro Cell Culture; Flow Cytometry for Cell Analysis; Isolation of VSMCs from the Thoracic; In Vivo Studies & Induction of Type 1 Diabetes Mellitus; Western Blotting; Scratch Assay & Growth Assays; RT-PCR. For more information please visit: https://faculty.ksu.edu.sa/en/azalanazi

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ResearcherID: ABD-2614-2020
- **ORCID:** https://orcid.org/0000-0002-2937-540X
- **Google Scholar:** https://scholar.google.com/citations?user=a0KMRvwAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Forensic medicine/toxicology; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

- Identify novel therapeutic strategies for prevention of diabetes-induced renal and cardiovascular diseases in various animal models of diabetes
- Investigate the roles of renin angiotensin system, cyclooxygenases and oxidative stress in diabetic complications
- Finding the link between blood glucose levels and different vicious pathways causing kidney damage and hypertension in hypoglycemic and/or hyperglycemic animal models
- Study the antidiabetic activities of new synthetic compounds, and their mechanism of action in glycemic control

CURRENT RESEARCH PROJECTS

- Novel Cyclic-Imide Derivative Ameliorates Hyperglycemia in Type 2 Diabetic Rats.
- Tempol's Impact in Mitigating Lung injury Induced by Electronic and Tobacco Cigarette Smoke in Mice.

METHODOLOGY/METHODS USED IN RESEARCH

Developing hypoglycemic and hyperglycemic animal models for acute and chronic in vivo studies; ELISA and Enzyme immune assay (EIA); RT-PCR; QuantStudio™ 6 Flex Real-Time PCR System; Western blot; Softwares such as CODA® Data Acquisition Software, Hatteras Instruments Blood Pressure Analysis System, BIOPAC systems MP150, GraphPad Prism®, GraphPad Instat and Gen 5™ Microplate Data Collection & Analysis Software. For more information please visit: https://faculty.ksu.edu.sa/en/waalanazi

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://publons.com/researcher/HKE-5980-2023
- **ORCID:** https://orcid.org/0000-0002-2761-004X
- **Google Scholar:** https://scholar.google.com/citations?user=TKS13pYAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Computational biology; Drug discovery and computational modeling; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Molecular pharmacology and toxicology; Neuropharmacology

RESEARCH INTERESTS AND GOALS

- To investigate different therapeutic approaches in the mice model of Traumatic brain Injury
- To establish and develop the physiological based pharmacokinetic modelly for diffraction medication and proposing a best drug design in different disease populations such as liver cirrhosis, renal failure or/ and heart disease

CURRENT RESEARCH PROJECTS

- A Combination Therapy of Ibrutinib and Nicotinamide following Traumatic Brain Injury
- Development and Evaluation of Physiological based Pharmacokinetics (PBPK) model for Clonidine in healthy and disease populations

METHODOLOGY/METHODS USED IN RESEARCH

Neuro behavioral experiments; Protein or gene expression experiments (WB , PCR ElISA); Simulation and modeling using PBPK model

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0003-3924-593X
- **Google Scholar:** https://scholar.google.com/citations?user=Ni5vYM0AAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Molecular biology; Molecular pharmacology and toxicology; Neuropharmacology; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

Alzheimer's Disease Research; Drug Addiction Studies, focused on synthetic cannabinoids; Neuroprotection; Neurotoxicity Mechanisms; Oxidative Stress in brain; Mitochondrial Dysfunction in various neurological; disorders and drug addiction

CURRENT RESEARCH PROJECTS

- Exploration of Protective Compounds: Investigating the protective effects of various compounds against beta-amyloid-induced neurotoxicity in an Alzheimer's disease model
- Mechanisms of Neurotoxicity: Analyzing the neurotoxic mechanisms associated with synthetic cannabinoids within a drug addiction framework
- Novel Neuroprotective Agents: Researching new neuroprotective agents aimed at mitigating the harmful effects of synthetic cannabinoids
- Aging and Neuroprotection: Examining innovative neuroprotective strategies in the context of aging across different cell line models

METHODOLOGY/METHODS USED IN RESEARCH

Cell Culture; Neurons Differentiation; Flow cytometry; Cytotoxicity/Cell Proliferation assay (MTT assay); Reactive Oxygen Species Measurement; Mitochondrial dysfunction assessment; Western blotting; PCR; Immunocytochemistry (staining of different structural proteins); Scratch Assay; Fluorescence Microscope

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAM-1831-2020
- **ORCID:** https://orcid.org/my-orcid?orcid=0000-0002-2370-3660
- **Google Scholar:** https://scholar.google.com/citations?user=r5bd4tgAAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

- Amelioration of cytotoxic drugs side effects
- Amelioration of environmental toxic insults and effects
- Use of natural products and improve their bioavilability
- Repurposing of available drugs to help combat health challenges

CURRENT RESEARCH PROJECTS

- Amelioration of 5-FU induced mucositis
- Amelioration of cyclophosphamide-induced testicular toxicity

METHODOLOGY/METHODS USED IN RESEARCH

In-Vivo experiment design and conduction; Spectrophotometric analysis and ELISA; Primary tissue culture isolation; In vitro experiments

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAA-7683-2022

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

The long-term goal is to understand the roles of serine hydrolyses in diverse inflammation-associated disease models, such as multiple cancer cell types.

CURRENT RESEARCH PROJECTS

- Studying the impact of MAGL inhibition on inflammation-promoting melanoma progression and chemoresistance
- Studying the impact of ABHD6 and ABHD12 blockade on cancer cells progression and chemoresistance

METHODOLOGY/METHODS USED IN RESEARCH

Cell culture; Transient transfection using lipofectamine; Western Blotting; qRT-PCR and PCR Coimmunoprecipitation; ELISA; Immunohistochemistry (IHC); Immunofluorescences; Cell viability /proliferation assay; Scratch wound and cell migration assay; Mouse husbandry; Viral plaque assay Intranasal infection of mice; Generation viruses for transfection; Bone marrow isolation and generation of BMDMs; GraphPad Prism

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Web of Science ResearcherIDMNO-1347-2025
- **ORCID:** https://orcid.org/0000-0003-1565-4472
- **Google Scholar:** https://scholar.google.com/citations?user=HTJpdlIAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Neuropharmacology; research on pharmacy education

RESEARCH INTERESTS AND GOALS

- Identifying a modulator and/or a biomarker of neuronal insults in brain disorders, including schizophrenia, major depressive disorder, and anxiety
- Examine the behavioral and molecular mechanisms of addictive substances
- Characterize the basics of gender bias in mental illness
- Investigate the translational aspect of anxiety, depression, and behavioral addictions in undergraduate students
- Examining the need to establish a mental health support system for students – especially those at special risk, such as females and first-year students

CURRENT RESEARCH PROJECTS

- Examining the anti-depressive effects of agmatine in socially isolated mice
- Investigating Nicotine Addiction's Mechanism and Potential Treatment on Socially Isolated Rats
- Mapping depression and anxiety status in Saudi community- a national cohort
- Investigate the mechanistic association of general health, life satisfaction, and loneliness in Saudi Students

METHODOLOGY/METHODS USED IN RESEARCH

For more information please visit: https://faculty.ksu.edu.sa/en/talshammary

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ABB-4935-2020
- **ORCID:** https://orcid.org/0000-0002-2211-1014
- **Google Scholar:** https://scholar.google.com/citations?user=_eSFCAUAAAAJ&hl=en

DR. HUSSAM MOHAMMED ALBASSAM

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AREAS OF EXPERTISE AND RESEARCH

Drug discovery and computational modeling; Molecular biology; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

- Interested in Cancer pharmacology, Immunomodulators, Drug discovery and development, and Drug design
- Identification of novel small molecules against cancer molecular target
- Validation of potential candidate utilizing in vitro biological assays and animal models
- Designing new small molecules to improve potency and/or decrease toxicity of certain chemotherapeutic agents

CURRENT RESEARCH PROJECTS

- Targeting endoplasmic reticulum-associated ERO1a enzyme as novel therapeutic target in colorectal cancer
- Characterization of novel selective PI3Ka inhibitors developed by my laboratory for targeted colorectal cancer therapy: This project showcases my discovery and in-depth characterization of innovative selective PI3Ka inhibitors, evaluating their potential as targeted therapeutic agents for colorectal cancer
- For more information, please contact at: halbassam@ksu.edu.sa

METHODOLOGY/METHODS USED IN RESEARCH

Molecular docking Molecular dynamics simulations; Drug Design; ADME-Toxicity prediction; CRISPR/Cas 9; Transfection; Flow cytometry; Western Blot; Pull down assays; Cytotoxicity/Cell viability assays; Apoptosis/Cell cycle analysis; Gene reporter assays; Gene editing; Immunocytochemistry Immunohistochemistry; Cell culture techniques; 3D cell culture techniques; In vivo xenograft models

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABD-2674-2020
- **ORCID:** https://orcid.org/0000-0002-5544-9177

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug design and synthesis; Forensic medicine/toxicology; Molecular biology; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Pharmacogenetics and pharmacogenomics; Pharmacokinetics and computational modeling; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

Molecular Mechanisms in Disease Progression: Focus on understanding the molecular mechanisms driving disease progression, with a particular emphasis on angiogenesis and metastasis; Role of Protein-Tyrosine Kinases and Matrix Metalloproteinases: Investigate the roles of these enzymes in disease, aiming to compare gene expression profiles between diseased and normal cells. For more information, please visit: https://faculty.ksu.edu.sa/ar/kalhazzani

CURRENT RESEARCH PROJECTS

- Naringenin's role in mitigating dasatinib-induced kidney damage by modulating antioxidant defense, inflammation, and apoptosis pathways
- Integrating metabolomics, histopathology, and cardiac marker analysis to assess valsartan's efficacy in mitigating dasatinib-induced cardiac toxicity in Sprague-Dawley rats
- Investigating the therapeutic effects of liposomal resveratrol in mitigating diabetic nephropathy by modulating inflammatory response, oxidative stress, and apoptosis
- For more information, please visit: https://faculty.ksu.edu.sa/ar/kalhazzani

METHODOLOGY/METHODS USED IN RESEARCH

Hydrodynamic Tumor Injection Model; Xenograft and Allograft Tumor implantation models. For more information, please visit: https://faculty.ksu.edu.sa/ar/kalhazzani

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABD-2607-2020
- **ORCID:** https://orcid.org/0000-0002-1890-1291
- **Google Scholar:** https://scholar.google.com/citations?user=2rf5GqAAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

- Molecular carcinogenesis, cancer chemoprevention
- The molecular mechanisms underlying drugs and chemical induced vital organ toxicity using rodent model, and exploring preventive strategies using natural or synthetic compounds

CURRENT RESEARCH PROJECTS

Elucidating the molecular mechanism involved in doxorubicin/cisplatin induced vital organ toxicity and preventive measures using natural compound or Nano formulation

METHODOLOGY/METHODS USED IN RESEARCH

Western blot; PCR; ELISA; Biochemical assays

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAK-3922-2020
- **ORCID:** https://orcid.org/0000-0001-6525-4202
- **Google Scholar:** https://scholar.google.com/citations?user=GhD8Bk8AAAAJ&hl=en&oi=ao

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology; Neuropharmacology; Cancer Pharmacology

RESEARCH INTERESTS AND GOALS

- Cancer pharmacology
- Brain cancer
- Glioblastoma
- Autism

CURRENT RESEARCH PROJECTS

Autism cancer

METHODOLOGY/METHODS USED IN RESEARCH

Cell line Culture and maintenance; Protein Extraction; Western Blot Analysis; Wound healing assay; Transwell migration assay; Matrigel invassion assay; Intracranial tumor implantation.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** ABD-2520-2020
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AREAS OF EXPERTISE AND RESEARCH

Aging research; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Herbal medicine; Medication safety; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Neuropharmacology

RESEARCH INTERESTS AND GOALS

Molecular neuroscience; behavioral pharmacology; drug development; acute and chronic pain; inflammation; inflammatory bowel disease (IBD); colitis; diabetes mellitus (DM); and evaluation of the therapeutic potentials and adverse effects of candidate drugs in an in vivo models of analgesia, obesity, learning and memory, Alzheimer, drug of abuse/addiction, smoking cessation, autism, chemotherapy induced pain and cognitive deficit (chemobrain) in cancer patients.

CURRENT RESEARCH PROJECTS

- Neuropathic pain
- Autism
- Obesity and food addiction
- Cognitive impairment

METHODOLOGY/METHODS USED IN RESEARCH

Pain and Analgesia Lab; Behavioral pharmacology, cognitive, learning and memory; Neurodegenerative diseases and addiction, and drugs of abuse; Anxiety and depression experiments for neuropsychopharmacology drugs. For more information, please visit: https://faculty.ksu.edu.sa/en/sdalsharari/cv

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAC-9103-2020
- **ORCID:** https://orcid.org/0000-0002-4263-3610
- **Google Scholar:** https://scholar.google.com/citations?user=E8A8wf8AAAAJ&hl=en&oi=ao

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology; Pharmacoeconomics

RESEARCH INTERESTS AND GOALS

Cancer remains a major global health challenge, ranking among the leading causes of death worldwide. Despite significant advancements in cancer treatment, millions of patients continue to succumb to the disease due to cancer progression and treatment failure. Therefore, novel and integrative approaches to cancer research and therapy are urgently needed to improve patient outcomes. For more information, please visit: https://faculty.ksu.edu.sa/ar/asalhamed

CURRENT RESEARCH PROJECTS

- Molecular Mechanisms of Breast Cancer Progression: Investigating novel pathways that drive breast cancer progression and identifying potential therapeutic targets
- TGF-β and Chemotherapy Resistance: Examining how transforming growth factor-beta (TGF-β) contributes to chemotherapy resistance by altering DNA repair mechanisms in cancer cells.
- Investigating the role of Store-operated calcium entry signaling pathway in modulating the hypoxia-induced inflammation and progression of glioblastoma
- Assessing the role of store-operated calcium entry in the interaction between macrophages and breast cancer cells and its impact on cancer progression
- Investigating the impact of Store-operated calcium entry gene knockdown on inflammation induced breast cancer progression and treatment resistance

METHODOLOGY/METHODS USED IN RESEARCH

Molecular and Protein Analysis: PCR, Western blot, and ELISA; Cellular Function and Viability; Calcium Signaling Studies. For more information, please visit: https://faculty.ksu.edu.sa/ar/asalhamed

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABD-2480-2020
- **ORCID:** https://orcid.org/0000-0001-8933-3490
- **Google Scholar:** https://scholar.google.com/citations?hl=ar&user=PgWmxiAAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Molecular biology; Molecular pharmacology and toxicology; Pharmaceutical/health outcomes; Pharmacoepidemiology

RESEARCH INTERESTS AND GOALS

Cardiovascular Pharmacology and Toxicology: Investigating cardioprotective agents and molecular pathways in myocardial damage; Cancer Therapeutics: Development of nanoformulations and drug delivery systems for targeted cancer treatment; Neuropharmacology and Toxicology: Exploring neuroprotective compounds for memory impairment, neuroinflammation, and neurodegenerative diseases; Nanotechnology & Drug Delivery: Formulation and characterization of nanoparticles for enhanced drug bioavailability; Molecular & Computational Modeling: In silico studies for drug-target interactions and molecular docking; Analytical & Pharmaceutical Chemistry: Development of advanced analytical techniques for drug quantification; Inflammation & Oxidative Stress: Studying the role of antioxidants in inflammatory diseases and metabolic disorders.

CURRENT RESEARCH PROJECTS

- Cardioprotective Effects: Europinidin reduces myocardial damage by modulating inflammatory and apoptotic pathways
- Cancer Therapy Innovations: Co-delivery of vinorelbine and rutin using lipid polymer nanoparticles enhances liver cancer treatment
- Drug Formulation & Analytical Chemistry
- For more information, please visit: http://fac.ksu.edu.sa/fimam/home

METHODOLOGY/METHODS USED IN RESEARCH

Biochemical Assay; ELISA Assay; Western Blotting; qPCR

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AEE-1157-2022
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- **Google Scholar:** Ve7i_9IAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Neuropharmacology

RESEARCH INTERESTS AND GOALS

Identify the best therapeutic intervention for neurological and psychiatric disorders using translational approaches, including genetically and pharmacologically diseased-based animal models. Goals:

- Understand the biology of pathological dysfunctions in brain disorders such as depression, autism, anxiety, pain, attention deficit hyperactivity disorder (ADHD), schizophrenia, Alzheimer, and epilepsy
- Identify a biological link between CNS disorders and metabolic diseases such as diabetes and obesity
- Characterize signaling pathways critically involved in brain disorders
- Identify a potential biomarker and drug target / examine these drug targets

CURRENT RESEARCH PROJECTS

Currently, my work centers on understanding the role of the molecular mechanisms underlying adult neural stem cell development in the adult mammalian brain. I am interested in identifying a novel regulator of adult neurogenesis that may be the key molecule in the pathogenesis of major neuropsychiatric disorders.

METHODOLOGY/METHODS USED IN RESEARCH

Molecular Biology; Immunohistochemistry; Fluorescence microscopy; Confocal microscopy; Structured illumination microscopy (SIM); Electrophysiology; Behavioral studies; Analytical techniques

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/D-6949-2019
- **ORCID:** https://orcid.org/0000-0002-5165-1095
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=u31nsJwAAAAJ

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Medication safety; Molecular biology; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Neuropharmacology; Pharmaceutical nanotechnology; Pharmacogenetics and pharmacogenomics; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

Research interests: My research interest concerns the serotonin system and its role in: The neuronal regeneration and growth, neuronal survival and apoptosis; The regulation of synaptic plasticity by strengthening the synaptic signal transmission; Modulation of the expression and activation of cell signalling proteins; Immune cells and inflammation; The pathology of neurodevelopmental diseases such as autism and attention deficit hyperactivity disorder (psychiatric diseases such as schizophrenia, depression and anxiety as well as neurodegenerative diseases such as Alzheimer's disease and Parkinsons disease). For more information, please visit: https://faculty.ksu.edu.sa/ar/wsarawi

CURRENT RESEARCH PROJECTS

- Insomnia project
- Ischemia reperfusion injury project

METHODOLOGY/METHODS USED IN RESEARCH

Biochemical assays; Animal handling, treatment and care; Molecular pharmacology and biology; Gene mutation and cloning; Biotechnology; Modulations of gene expression and study their changes in the cell; Quantitative PCR and endpoint PCR; Cell culture and maintenance; Tissue resection and embedding; Immunolabelling-based techniques: Western blotting, IHC, IF, ICC, ELISA; Confocal microscopy and flow cytometry; Radioligand binding assays; Behavioral assays.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** GLR-1316-2022
- **ORCID:** https://orcid.org/0000-0001-6376-9464
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=da_9SJwAAAAJ

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Forensic medicine/toxicology; Molecular biology; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

Metabolomics: Using LC-MS and NMR to identify metabolites; Proteomics: Investigating protein expression and modifications in disease models; Biomarker Discovery: Identifying metabolic and proteomic biomarkers for disease diagnosis/progression; Precision Medicine: Exploring individualized metabolic and proteomic responses to drugs and diseases; Diabetes & Hyperglycemia Research: Exploring metabolic and proteomic changes in metabolic diseases; Molecular Pharmacology & Toxicology: Evaluating drug metabolism and toxicity mechanisms

CURRENT RESEARCH PROJECTS

- Diabetes & Diabetic Nephropathy: Investigating metabolic and molecular mechanisms of disease progression
- Molecular Toxicity of Electronic vs. Traditional Cigarettes: Comparing their impact on cellular and molecular pathways
- Toxicity & Safety of Dental Products: Evaluating the molecular effects of various materials used in dentistry.

METHODOLOGY/METHODS USED IN RESEARCH

Metabolomics Techniques; Metabolic profiling and biomarker discovery; NMR Structural and metabolic analysis; Molecular Biology & Gene Expression; qPCR; Western Blotting; Protein and cytokine quantification. Proteomics; Cell Culture & Toxicology Studies; Cell Viability Assays (MTT, XTT, etc.) – Assessing drug and toxin effects; Oxidative Stress Assays; Rodent Models (diabetes, nephropathy, and toxicity). For more information, please visit: https://faculty.ksu.edu.sa/en/moassiri

LINK TO PUBLISHED WORK

- **Google Scholar:** https://scholar.google.com/citations?user=FwPdgSIAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

- Pharmacology
- Toxicology

CURRENT RESEARCH PROJECTS

Molecular pharmacological effects of anticancers

METHODOLOGY/METHODS USED IN RESEARCH

PCR; Western blot; Molecular techniques

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular biology; Molecular pharmacology and toxicology; Neuropharmacology; Pharmacogenetics and pharmacogenomics

RESEARCH INTERESTS AND GOALS

1. Neuropharmacology: Investigating the mechanisms of drug action on the nervous system. 2. Drugs of Abuse: Exploring the neurobiological impact of substance use and addiction. 3. Neurological Disorders: Studying pharmacological interventions for conditions such as schizophrenia, Parkinson's, and neurodegenerative diseases. 4. Therapeutic Development: Identifying novel drug targets for treating neurological and psychiatric disorders. 5. Neurotransmitter Systems: Examining the role of dopamine, serotonin, and other neurotransmitters in brain function and behavior. 6. Translational Research: Bridging the gap between basic neuroscience findings and clinical applications.

CURRENT RESEARCH PROJECTS

- Drug of abuse
- Alzheimer's disease
- The effect of Ghat on mice model

METHODOLOGY/METHODS USED IN RESEARCH

DNA Synthesis & Purification; PCR Technology; Co-immunoprecipitation; ELISA; Western Blot; Immunohistochemistry; Radioligand Studies; Cell Transfection; Cell Culture Preparation; Behavioral Studies; Protein Purification; Statistical Analysis

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0003-2921-3491

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AREAS OF EXPERTISE AND RESEARCH

Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

- Understanding the role of purinergic receptors on cardiovascular diseases
- Study the role of G protein-coupled receptors in cardiovascular diseases and diabetic complications
- Understanding the molecular mechanisms of diabetic complications such as cardiomyopathy, nephropathy, and aging.

CURRENT RESEARCH PROJECTS

- Study the role of P2X7 purinergic receptors in cardiovascular diseases and cardiac aging
- Study the impact of GRK5 inhibitors on cardiovascular diseases
- Investigate the effects of GLP-1 and GIP receptor agonists on cardiac aging

METHODOLOGY/METHODS USED IN RESEARCH

Molecular techniques such as western blotting and RT-PCR; Mutagenesis technique

LINK TO PUBLISHED WORK

- **ORCID:** https://orcid.org/0000-0002-7138-414X

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Molecular biology; Molecular pharmacology and toxicology; GPCR

RESEARCH INTERESTS AND GOALS

Cardiovascular Pharmacology; Diabetes related complication; Molecular Pharmacology of GPCRs; G protein-coupled receptors kinases (GRKs) and β-arrestins; GPCR classical and non-classical signalling pathways; Understanding the molecular basis of disease pathology; Developing new molecular diagnostics and identifying new molecular and cellular therapeutics targets.

CURRENT RESEARCH PROJECTS

Studying the pathophysiological effect of G Protein Coupled Receptor Kinases 2 and 5 in cardiomyopathy: Investigating their therapeutic targeting for cardio protection from myopathy progression.

METHODOLOGY/METHODS USED IN RESEARCH

Live Cell Imaging; Cell Culture; Animal Model of cardiovascular diseases; Animal Model of Diabetes; Immunoblotting; ELISA; IHC/FL-IHC

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/ABD-4106-2020
- **ORCID:** https://orcid.org/0000-0003-3367-002X

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Aging research; Molecular biology; Molecular pharmacology and toxicology; Pharmaceutical nanotechnology; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.); Toxicological risk assessment; Nanotoxicology

RESEARCH INTERESTS AND GOALS

Assess safety of nanomaterials at the molecular level, particularly those utilized in nanomedicine and biomedical applications; Elucidate the underlying mechanisms of nanomaterial-bio interaction at both the cellular and molecular levels; Investigate how nanomaterials influence normal cellular functions at subtoxic concentrations; Evaluate the susceptibility of various cellular models to nanomaterials under disease or environmental co-exposure; Employ nanomaterials to study fundamental cellular mechanisms with the goal of identify novel therapeutic intervention strategies

CURRENT RESEARCH PROJECTS

- Investigating the role of gold and silver nanomaterials on cancer cell senescence
- Assessing the impact of morphology in toxicity of vanadium nanomaterials
- Assessing neuromodulation and toxicity following exposure to iron oxide nanomaterials at subtoxic concentrations
- Assessing adverse response of zinc oxide nanomaterials on primary vascular smooth muscle cells

METHODOLOGY/METHODS USED IN RESEARCH

Descriptive and mechanistic toxicology; In vitro toxicity; Primary bone marrow-derived mast cells; Cell culture; Western blotting; qPCR; flow cytometry

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAY-3067-2020
- **ORCID:** 0000-0002-2650-5934
- **Google Scholar:** https://scholar.google.com/citations?user=4fINkGMAAAAJ&hl=en

DR. SALIM S. AL-REJAIE

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AREAS OF EXPERTISE AND RESEARCH

Clinical Pharmacy; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Neuropharmacology; Pharmaceutical/health outcomes; Pharmacy administration; Pharmacy regulatory affairs; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

Pre-clinical research for osteoporosis, diabetic and behavioral models.

CURRENT RESEARCH PROJECTS

Pre-clinical research for osteoporosis, diabetic and behavioral models.

METHODOLOGY/METHODS USED IN RESEARCH

Sleep deprivation-induced memory impairment in rats; Ovariectomized rats as a model for Postmenopausal osteoporosis; Hepato-protection in Wistar Albino Rats Using High Cholesterol Diet Model

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/A-1220-2011
- **ORCID:** https://orcid.org/0000-0002-9254-1087
- **Google Scholar:** https://scholar.google.com/citations?user=SDmdSIIAAAAJ&hl=en

DR. SARY IBRAHIM ALSANEA

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular pharmacology and toxicology; Neuropharmacology; Pharmacokinetics and computational modeling; Clinical clincal

RESEARCH INTERESTS AND GOALS

Fasting headache prevention

CURRENT RESEARCH PROJECTS

- Obesity prevention
- Leading research and development

METHODOLOGY/METHODS USED IN RESEARCH

Preclinical and clinical models

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/AAC-9566-2020
- **ORCID:** https://orcid.org/0000-0002-5323-5781
- **Google Scholar:** https://scholar.google.com/citations?user=T3Bx04QAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Forensic medicine/toxicology; Molecular pharmacology and toxicology; Toxicological risk assessment

RESEARCH INTERESTS AND GOALS

- Drug and chemical toxicology
- Environmental pollutants' toxicity
- In-vitro toxicology models
- Flowcytometry testing

CURRENT RESEARCH PROJECTS

- In-vitro drug and formulation testing
- Flowcytometry testing of in-vitro cytotoxicity

METHODOLOGY/METHODS USED IN RESEARCH

Flowcytometry; Cell culture

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** http://www.researcherid.com/rid/B-6009-2011
- **ORCID:** https://orcid.org/0000-0001-6725-0686
- **Google Scholar:** https://scholar.google.com/citations?user=RxklP8MAAAAJ&hl=en

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Computational biology; Drug design and synthesis; Drug discovery and computational modeling; Drug of abuse/behavioral pharmacology; Forensic medicine/toxicology; Herbal medicine; Molecular biology; Molecular pharmacology and toxicology; Natural product discovery and evaluation; Neuropharmacology; Systems biology (e.g. transcriptomics, proteomics, metabolomics, etc.)

RESEARCH INTERESTS AND GOALS/CURRENT RESEARCH PROJECTS

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

METHODOLOGY/METHODS USED IN RESEARCH

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. For more info, please visit: https://faculty.ksu.edu.sa/ar/afalasmari

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** AAM-6548-2020
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College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Drug of abuse/behavioral pharmacology; Molecular biology; Molecular pharmacology and toxicology

RESEARCH INTERESTS AND GOALS

My goal is to attain a high level of excellence in the fields of Molecular Biology, Biotechnology, Pharmacology, and Toxicology. I am committed to dedicating my utmost efforts and capabilities to contribute effectively within an organization that presents a dynamic and challenging environment. I believe that such an atmosphere will not only allow me to apply my existing knowledge and skills but also provide ample opportunities for professional growth and development. I am eager to engage in research endeavors that push the boundaries of these disciplines, collaborating with like-minded individuals to drive innovation and advancement. Through continuous learning and application, I aim to refine my expertise and make meaningful contributions to the field.

METHODOLOGY/METHODS USED IN RESEARCH

Western blot; Real-time PCR

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** Web of Science ResearcherID: GQH-7773-2022
- **ORCID:** https://orcid.org/0000-0002-3556-5939
- **GoogleScholar:**https://scholar.google.com/citations?hl=en&user=fgQTZhUAAAAJ&view_op=list_works&sortby=pubdate

College of Pharmacy Faculty Booklet

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AREAS OF EXPERTISE AND RESEARCH

Neuropharmacology; Neuroimmunology

RESEARCH INTERESTS AND GOALS

The end goal of our research is the development of targeted drug delivery through the detailed investigation of immunology. Specifically, our laboratory's immunological aspects of autoimmune and neuroimmunological disorders are mainly interesting. We utilize our in-depth understanding of flow cytometry, western blotting, and RT-PCR to analyze various aspects of immunology/immunobiology and identify potential drug targets. To further understand immune and neuroimmune diseases, we utilize models of arthritis, lung inflammation, stress models, experimental autoimmune encephalomyelitis (EAE), and BTBR T+ Itpr3tf/J autistic mouse model in experiments to assess the status of expression of cell surface markers, colony stimulation factors, pro, and anti-inflammatory mediators, cytokines, toll-like receptors (TLRs), chemokines and their receptors, adhesion and costimulatory molecules, and transcription factors pathways. For more info, please visit: https://faculty.ksu.edu.sa/en/fashaikh

CURRENT RESEARCH PROJECTS

1. Study the immunological imbalance in autistic patients to understand its pathophysiology and to open new avenues for treatment; 2. Evaluation of chemokine receptor antagonists in the pathogenesis and progression of collagen-induced arthritis in DBA1/J mice; 3. Assessment of the efficacy of immunomodulators in mice models of multiple sclerosis; 4. Immunomodulatory effects of some potential therapeutic agents in a mouse model of autism

METHODOLOGY/METHODS USED IN RESEARCH

Specifically, our laboratory's immunological aspects of autoimmune and neuroimmunological disorders are mainly interesting.

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/R-5853-2017
- **ORCID:** https://orcid.org/0000-0002-8282-3726
- **GoogleScholar:**https://scholar.google.com/citations?hl=en&user=rnBvsCMAAAAJ&view_op=list_works&sortby=pubdate

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AREAS OF EXPERTISE AND RESEARCH

Pharmacogenetics and pharmacogenomics; Bioinformatics; Aging research; Molecular biology; Drug discovery; Molecular pharmacology and toxicology; Pharmaceutical biotechnology

RESEARCH INTERESTS AND GOALS

- Screen for novel anticancer agents
- Identify underlying genetic and epigenetic factors in cancer etiology and progression
- Understand the role of therapy-induced senescence (TIS) in cancer and chemotherapy resistance
- Study genetic variabilities within the Saudi population that influence drug response

CURRENT RESEARCH PROJECTS

- anticancer activity of newly synthesized gold-based compounds
- Targeting therapy-induced senescence: a novel therapeutic approach in breast cancer treatment
- The role of TPC1 and TPC2 knockout in colon cancer progression and chemotherapy resistance
- Interplay between therapy-induced senescence and the immune system influencing the tumor microenvironment
- the role of immune checkpoints in chemotherapeutic response and cancer recurrence in several cancer types

METHODOLOGY/METHODS USED IN RESEARCH

Omics techniques, Bioinformatics, Gene expression modification, Cell culture, In vitro testing, Flow cytometry, qPCR, Western blotting, Writing research manuscripts, Writing research grants

LINK TO PUBLISHED WORK

- **ResearcherID (WoS/Publons):** https://www.webofscience.com/wos/author/record/M-5657-2019
- **ORCID:** https://orcid.org/0000-0003-4471-2344
- **Google Scholar:** https://scholar.google.com/citations?user=C65TP0IAAAAJ&hl=en