

PROF. DR. ASAAD KHALID MOHAMEDALI HIGHLIGHTS



Asaad Khalid

Born in Fadasi, SUDAN
on January 1, 1972

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Fellow of the Sudan National
Academy of Science.

Young Affiliate Fellow of The
World Academy of Science
(TWAS).

Member of COST (European
Cooperation in Sci. and Tech.)
CMST Action CM0801.



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EDUCATION:

Ph.D. in Chemistry (Biochemistry) (April, 2003), H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan.

Thesis Title: Biochemical Studies on New Natural Inhibitors of Cholinesterases.

Ph.D. Supervisor: Prof. Dr. M. Iqbal Choudhary

PhD Examiners: (a) Prof. Luis Moroder (Max Planck Institute of Biochemistry, Germany),
(b) Prof. C.W. Wharton (University of Birmingham, UK)

M.Sc. in Biochemistry (1997), University of Karachi, Karachi, Pakistan.

B.Sc. (Hons.) in Biochemistry, Chemistry and Physiology (1996), University of Karachi, Karachi, Pakistan.

EXPERIENCE:

Professor (Nov, 2013- present), Health Research Center, Jazan University, P.O. Box: 114, Jazan, Saudi Arabia.

Research Professor (July, 2011- Nov. 24, 2013) Medicinal and Aromatic Plants and Tropical Medicine Research Institute, National Center for Research, P.O. Box: 2404, Khartoum, Sudan.

Professor (July, 2013- Oct. 2013) Faculty of Medicine, National University for Medical and Technical Studies, Khartoum, Sudan.

Member of the Senate (Aug., 2013- Nov, 2013), Sudan Academy of Sciences, Khartoum, Sudan

Associate Professor (Dec., 2006- June, 2011) Medicinal and Aromatic Plants Research Institute, National Center for Research, P.O. Box: 2404, Khartoum, Sudan.

Head, Medical Biochemistry Research Unit (Jan., 2007- Nov, 2013), Medicinal and Aromatic Plants Research Institute, National Center for Research, P.O. Box: 2404, Khartoum, Sudan.

Visiting Professor (Oct., 2007- June, 2013), Faculty of Pharmacy, University of Science & Technology, Omdurman, Sudan.

Visiting Professor (Jan., 2010- Nov., 2013), Department of Chemistry, Faculty of Science, University of Khartoum, Sudan.

Visiting Professor (April., 2010- June, 2013), Faculty of Pharmacy, National University for Medical and Technical Studies, Khartoum, Sudan.

Senior Research Associate (Jan., 2004- Aug., 2006), Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan.

ACHIEVEMENTS:

Prof. Asaad is an active researcher who has mentored 16 Ph.D. students and 10 M.Sc. students. He is currently in charge of a research group focused on drug discovery. His research on anti-malarial drug discovery was named one of Africa's bright ideas by the WHO in 2009.

Prof. Asaad is the winner of the **AU-TWAS Young Scientists National Award 2011** (awarded by The African Union and The Academy of Science for the Developing World, TWAS) and the Pakistan Academy of Medical Sciences (**PAMS) Junior Gold Medal Award-2005** for the best biomedical research conducted in Pakistan during 2004 and 2005 and the Distinguished Achievement Award 2005-2006.

He has published over 240 research publications in leading international journals (WoS h-index =26). Prof. Asaad has delivered more than **50** invited lectures at scientific meetings. Prof. Asaad has taught several courses to undergraduate and postgraduate pharmacy and science students in several Sudanese universities for over five years. He has organized/instructed several international and national workshops/training courses. He conducted research projects funded by many national and international agencies, including the European Union.

RESEARCH INTERESTS:

The research of Prof. Asaad focuses on drug discovery from medicinal plants. His target/cell-based research targets several tropical and neglected diseases, including malaria, diabetes, tuberculosis, leishmaniasis, and trypanosomiasis. Prof. Asaad's target-based drug discovery research utilizes enzyme inhibition methods to discover drug candidates that target particular enzyme-related disease mechanisms. On the other hand, He also utilizes bioinformatics tools such as molecular docking and molecular dynamic simulation to understand molecular recognition patterns in ligand-receptor complexes. Prof. Asaad's collaboration includes many distinguished scientists from USA, Germany, Finland, Sweden, Oman, Morocco, Pakistan and India.

Curriculum Vitae

PROF. DR. ASAAD KHALID MOHAMED ALI AHMED,

Substance Abuse and Toxicology Research Center, Jazan University, P. O. Box: 114,
Jazan-111, Saudi Arabia.

Cell: +966501319782; **Email:** drasaad@gmail.com; akahmed@jazanu.edu.sa

EDUCATION:

Ph.D. Chemistry (Biochemistry) (April, 2003)

H.E.J. Research Institute of Chemistry,
International Center for Chemical Sciences,
University of Karachi, Karachi-75270, Pakistan.

Thesis Title: Biochemical Studies on New Natural Inhibitors of Cholinesterases.

Ph.D. Supervisor: Prof. Dr. M. Iqbal Choudhary

Ph.D. Examiners: (a) **Prof. Luis Moroder** (Max Planck Institute of Biochemistry, Munich, Germany), (b) **Prof. C. W. Wharton** (University of Birmingham, UK) and (c) Prof. Atta-ur-Rehman (Ziauddin Medical Collage, Karachi, Pakistan).

M.Sc. Biochemistry (Feb., 1997)

Department of Biochemistry, University of Karachi, Karachi-75270, Pakistan

B.Sc. (Hons.) Biochemistry, Chemistry and Physiology (Dec., 1996)

Department of Biochemistry, University of Karachi, Karachi-75270, Pakistan

EXPERIENCE:

- **Professor** (Nov. 25, 2013- present)
Health Research Center (formally, Substance Abuse and Toxicology Research Center), Jazan University, P. O. Box: 114, Jazan-111, Saudi Arabia.
- **Research Professor** (July, 2011- Nov. 24, 2013)
Medicinal and Aromatic Plants Research Institute, National Center for Research, El-Mak Nimir Street, P.O. Box: 2404, Khartoum, Sudan.
- **Professor** (July, 2013- Oct. 2013)
Faculty of Medicine, National University for Medical and Technical Studies, Khartoum, Sudan.
- **Member of the Senate** (Aug., 2013- Nov. 2013)
Sudan Academy of Sciences, Khartoum, Sudan.
- **Head, Medical Biochemistry Research Unit** (Jan., 2007- Nov. 24, 2013)
Medicinal and Aromatic Plants Research Institute, National Center for Research, El-Mak Nimir Street, P.O. Box: 2404, Khartoum, Sudan.
- **Associate Professor** (Dec., 2006- June, 2011)
Medicinal and Aromatic Plants Research Institute, National Center for Research, El-Mak Nimir Street, P.O. Box: 2404, Khartoum, Sudan.
- **Rapporteur** of the Ministerial Council of Science and Technology (Aug., 2010- March, 2013)
Ministry of Science and Communications, Government of Sudan.
- **Rapporteur** of the Ministerial Council of Moringa Research (June, 2012- Nov. 2013)
Ministry of Science and Communications, Government of Sudan.
- **Visiting Professor** (Oct., 2007- June, 2013)
Faculty of Pharmacy, University of Science & Technology, Omdurman, Sudan.
- **Visiting Professor** (Jan., 2010- Nov., 2013)
Department of Chemistry, Faculty of Science, University of Khartoum, Sudan.
- **Visiting Professor** (April, 2010- June, 2013)
Faculty of Pharmacy, National University for Medical and Technical Studies, Khartoum, Sudan.
- **Senior Research Associate** (Jan., 2004- Aug., 2006)
Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan.
- **Visiting Scientist** (June, 2003 - Dec., 2003)

H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan.

- **Senior Research Fellow** (Oct. 1999 - April, 2003)

H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan.

- **Junior Research Fellow** (April, 1996 - Oct. 1999)

H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan.

TEACHING EXPERIENCE:

UNIVERSITY COURSES:

- **Professor** (July, 2013- Oct. 2013)

Faculty of Medicine, National College for Medical and Technical Studies, Khartoum, Sudan.

Courses:

- Basic and Advanced Biochemistry (for medicine students)
- Other integrated courses (for medicine students)
- Drug Design and Development (for fourth year pharmacy students)

- **Visiting Professor** (Oct., 2007- June, 2013) at Faculty of Pharmacy, University of Science & Technology, Omdurman, Sudan.

Courses:

- Basic and Advanced Biochemistry (for second year students)
- Pharmaceutical Biotechnology (for final/fifth year students)
- Drug Design and Development (for final/fifth year students)

Supervision: I have supervised nine graduation research projects (see page 6 for details).

- **Visiting Professor** (Jan. 2010- 2013) at Department of Chemistry, Faculty of Science, University of Khartoum, Sudan.

Courses:

- Drug Design and Development (for postgraduate master students)

- **Visiting Professor** (April, 2010- June, 2013) at Faculty of Pharmacy, National College for Medical and Technical Studies, Khartoum, Sudan.

Courses:

- Drug Design and Development (for fourth year students)

CURRICULUM DEVELOPMENT:

- Contributed to the design and development of the curriculum of the **Master's degree program in Biotechnology**, Alahfad University for Women, Khartoum, Sudan (2012).
- Designed and developed the curriculum of **drug design course**, Faculty of Pharmacy, National College for Medical and Technical Studies, Khartoum, Sudan (2010).
- Designed and developed the syllabus of **drug design course** for postgraduate students, Department of Chemistry, Faculty of Science, University of Khartoum, Sudan (2010).
- Updated and modified the syllabus of **biochemistry course**, Faculty of Pharmacy, University of Science and Technology, Khartoum, Sudan (2007).
- Designed and developed the syllabus of the **pharmaceutical biotechnology courses**, Faculty of Pharmacy, University of Science and Technology, Khartoum, Sudan (2007).

WORKSHOPS/TRAINING COURSES:

- **National workshops/training courses:** I have organized, taught and/or instructed one International and five *National Training Courses on Computational Chemistry and Molecular Modeling/Drug Design*. Moreover, I have been invited to instruct and international workshop on drug design organized at the University of Jordan, Amman. (see page 10 for more details).

- **Courses taught to postgraduate (M. Phil./Ph.D.) students:**
 - "Drug design and discovery" course taught to M.Sc. Students, Department of Chemistry, Faculty of Science, University of Khartoum, Dec., 2009 –Jan., 2010.
 - "Enzyme kinetics", one-week short course, International Center for Chemical and Biological Sciences, University of Karachi, Nov., 2008.
 - "Enzyme kinetics, practical considerations", two-week short course, H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, July, 2003.
 - "Enzyme Kinetic and enzyme inhibition kinetics", a part of Enzymology course (Chem. 707), H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, June, 2004.
- Delivered many invited lectures in national and international workshops/training courses (see the list of oral presentations).

PROFESSIONAL SUMMARY

Renowned expert in molecular enzymology and enzyme inhibition with over two decades of experience in drug discovery and proteomics-based approaches. Distinguished for contributions to the identification of novel enzyme inhibitors targeting critical biological pathways in tropical and neglected diseases. Proven track record in guiding interdisciplinary research teams and collaborating with leading scientists globally.

RESEARCH INTERESTS

The research interest of Prof. Asaad is dedicated to the discovery of novel drug candidates through the inhibition of key enzymes involved in infectious and metabolic diseases. This includes a focus on:

- **Molecular Enzymology and Enzyme Inhibition:** Investigating enzyme kinetics and inhibition mechanisms to identify potential drug targets and develop enzyme assays for high-throughput screening.
- **Proteomics-Based Drug Discovery:** Utilizing proteomic techniques to identify and validate novel biomarkers and drug targets, integrating structural and functional data to enhance the drug discovery process.
- **Computational Chemistry and Molecular Modeling:** Applying molecular docking, dynamics simulations, and in silico screening to predict enzyme-ligand interactions and optimize lead compounds.
- **Neglected Tropical Diseases:** Targeting enzymes such as enoyl-ACP reductase, trypanothione reductase, and alanine dehydrogenase to combat malaria, trypanosomiasis, and tuberculosis, among others.
- **Neurodegenerative and Metabolic Disorders:** Researching inhibitors of acetylcholinesterase, butyrylcholinesterase, and glycogen phosphorylase-A for potential treatments of Alzheimer's disease and diabetes.

KEY ACHIEVEMENTS

- **Mentorship:** Successfully supervised 16 Ph.D. and 10 M.Sc. students, fostering the next generation of scientists in drug discovery and enzymology.
- **Award Recognition:** Recipient of prestigious awards such as the AU-TWAS Young Scientists National Award (2011) and the PAMS Junior Gold Medal Award (2005), recognizing excellent research achievements in biomedical sciences.
- **WHO Recognition:** Prof. Asaad research on anti-malarial drug discovery was recognized as one of Africa's bright ideas by the WHO in 2009.
- **High-Impact Publications:** Over 240 publications in leading international journals (WoS h-index = 26), contributing significantly to the fields of enzymology and drug discovery.

TECHNICAL EXPERTISE

- **Enzyme Assays and Inhibition:** Proficient in developing enzyme assays, analyzing enzyme kinetics, and studying enzyme inhibition using advanced spectrophotometric techniques.
- **Proteomics and Molecular Biology:** Experienced in cell culture, DNA/RNA extraction, PCR, Western blotting, electrophoresis, and ELISA for proteomic analyses and target validation.
- **Computational Drug Design:** Skilled in molecular modeling, docking (SYBYL, AutoDock), and molecular dynamics simulations to predict and optimize drug-receptor interactions.
- **Pharmacology and Toxicology:** Expertise in conducting pharmacological and toxicological studies, including structure-activity-kinetic relationships and *in vitro/in vivo* antioxidant assays.

PROFESSIONAL EXPERIENCE

- **Research Leadership:** Head of a dynamic research group focused on molecular enzymology and drug discovery. Successfully managed multiple projects funded by national and international agencies, including the European Union.
- **International Collaborations:** Engaged in collaborative research with eminent scientists from institutions such as Johns Hopkins SPH (USA), University of Kuopio (Finland), and Otto-von-Guericke University (Germany).
- **Teaching and Training:** Extensive experience teaching undergraduate and postgraduate courses in enzymology, proteomics, and drug discovery across multiple Sudanese universities. Organized and instructed numerous international workshops and training programs.

PUBLICATIONS AND PATENTS

- **Publications:** Authored more than 240 research articles, many of which are highly cited in the fields of enzyme inhibition and drug discovery.
- **Patents:**
 - Patent registered in Saudi Arabia (Application#123447201 dated 31/05/2023)
 - Patent submitted for registration in USA (2024)

ACADEMIC AWARDS:

1. Selected as **TWAS-UNESCO Associate** in 2013 by The Academy of Science for the Developing World (TWAS).
2. **AU-TWAS Young Scientists National Award 2011**, awarded by The African Union and The Academy of Science for the Developing World (TWAS).
3. **Selected as a TWAS Young Affiliate Fellow** by The Academy of Science for the Developing World (TWAS) and the TWAS Regional Office for the Arab Region (TWAS-ARO).
4. **PAMS Gold Medal Award-2005** for the best biomedical research conducted in Pakistan during 2004-2005, awarded by the Pakistan Academy of Medical Sciences (PAMS).
5. **Distinguished Achievement Award 2005-2006** (Prof. Dr. Salimuzzaman Siddiqui shield), awarded by the Pakistan Association of Scientists and Scientific Professions (PASSP).
6. **Visiting Foreign Scientist Fellowship:** (from June, 2003 to Dec., 2003)
Research topic: Computational Studies on Cholinesterases Inhibitors.
Organization: International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan.
7. **Senior Researcher Fellowship:** (from Oct. 1999 to April, 2003)
Research topic: Biochemical Studies on New Natural Inhibitors of Cholinesterases.
Organization: H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan.
8. **Junior Researcher Fellowship:** (from April, 1996 to Oct. 1999).
Research topic: Biochemical Studies on New Natural Inhibitors of Cholinesterases.

Organization: H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi, Pakistan.

TRAVEL GRANTS:

1. **Bill and Melinda Gates Foundation Global Health Travel Award** to attend the Keystone Symposium on Drug Resistance and Persistence in Tuberculosis to be held in Kampala, Uganda during May 13-18, 2012.
2. Supported by **The Academy of Science for the Developing World Arab Regional Office (TWAS-ARO)** to attend TWAS-ARO 7th Annual Meeting, Alexandria, Egypt, December 28-29, 2011.
3. Supported by **The Academy of Science for the Developing World (TWAS)** to attend TWAS 22nd General Meeting, Trieste, Italy, November 21-23, 2011.
4. Supported by **ANDI** and the **United Nations Economic Commission for Africa (UNECA)** to attend the 4th ANDI Stakeholders Meeting and Donor Conference, Addis Ababa, Ethiopia, October 24 – 27, 2011.
5. Fully supported by the **Kuwait Institute for Scientific Research (KISR)** to attend the 1st Arab-American Frontiers of Science, Engineering, and Medicine symposium, Kuwait, October 17-19, 2011.
6. Fully supported by the **European Cooperation in Science and Technology (COST)** to attend the 3rd Annual Meeting of the COST CM0801 action "New drugs for neglected diseases & Medicinal Chemistry in Parasitology", Modena, Italy, October 5-7, 2011.
7. Fully supported by the **European Cooperation in Science and Technology (COST)** to attend the 2nd Joint Expert Meeting among Working Groups 1/2/3/4 and MC Meeting of the COST Action CM0801, Certosa di Pontignano, Siena, Italy, May 28-30, 2010.
8. Fully supported by **The Academy of Science for the Developing World (TWAS)** to attend the TWAS 12th General Conference, Hyderabad, India, October 19-22, 2010.
9. Fully supported by **WHO/TDR** to attend the 3rd Stakeholders meeting of the African Network on Drugs and Diagnostics Innovation (ANDI), Nairobi, Kenya October 11-13, 2010.
10. Hosted by the **Federal State of Baden-Wuerttemberg, Germany** to participate in the Post Conference Program of the 60th Meeting of Nobel Laureates, to visit several research institutions in Baden-Württemberg estate in Germany, July 3-7, 2010.
11. Fully funded by the **OPEC Fund for International Development (OFID)** and **The Academy of Science for the Developing World (TWAS)** to attend the 60th Lindau Nobel Laureate Meeting, Lindau, Germany June 27-July 2, 2010.
12. Fully funded by **The Academy of Science for the Developing World (TWAS)** to attend TWAS/BioVisionAlexandria.NXT, Bibliotheca Alexandrina, Alexandria, Egypt, April 10-15, 2010.
13. Fully supported by the **European Commission** to attend (as an expert) the 5th MIM Pan- African Malaria Conference, and the joint EU/WHO symposium entitled "Improved Tools for the Elimination of Malaria in Africa: Research for New Drugs and Innovative Diagnostics", Nairobi, Kenya, Nov. 2-6, 2009.
14. Fully supported by **The Academy of Science for the Developing World (TWAS)** to attend the TWAS 11th General Conference, Durban, South Africa, October 20-23, 2009.
15. **Bill and Melinda Gates Foundation Global Health Travel Award** to attend the Keystone Symposium on Overcoming the Crisis of TB and AIDS, Arusha, Tanzania, October 20-25, 2009.
16. Fully supported by **WHO/TDR** to attend the 2nd Stakeholders meeting of the African Network on Drugs and Diagnostics Innovation (ANDI) and to present lecture in the Bright Ideas session of the meeting, Cape Town, South Africa, October 4-6, 2009.

17. **European Science Foundation (ESF Research Conferences) Award** to attend, deliver a lecture and to chair a session in the ESF-COST High-Level Research Conference on Natural Products Chemistry, Biology and Medicine II, Acquafredda di Maratea, Italy, August 29- September 3, 2009.
18. **European Science Foundation (ESF Research Conferences) Award** to attend the EUROPE-
AFRICA Conference on Infectious Diseases from Basic to Translational Research, Cape Town, South Africa, April 4-9, 2009.
19. **Bill and Melinda Gates Foundation Global Health Travel Award** to attend the Keystone Symposium on Malaria: Immunology, Pathogenesis and Vaccine Perspectives, Alpbach, Austria, Jun 8-13, 2008.
20. **Travel and registration grant** to attend the 1st International Conference on Drug Design and Discovery, Dubai, UAE, February 4-7, 2008.
21. Sponsored by **COMSTECH** (OIC Standing Committee on Scientific and Technological Cooperation) **under the "Young Scientist Program"** to participate and to deliver a lecture on the 1st International Workshop-cum-Training Course on Molecular Medicine and Drug Research, Karachi-Islamabad, Pakistan, January,16-30 2007.

FUNDING:

Following agencies have financially contributed in funding our research projects:

1. European Commission (Brussels, BE); under the 7th Framework Program for Research and Technological Development, GRANT_NUMBER: 603240, entitled, "New Medicines for Trypanosomatidic Infections"; 2014-02-01 to 2017-01-31; URL: <https://app.dimensions.ai/details/grant/grant.3795239>; URL: <https://fp7-nmtrypi.eu/>
2. European Cooperation in Science and Technology (Brussels, BE); CM0801 - New drugs for neglected diseases; 2008-11 to 2012-11 | Grant; URL: <https://www.cost.eu/actions/CM0801>
3. African Network for Drugs and Diagnostics Innovation, ANDi
4. Islamic Educational, Scientific and Cultural Organization, ISESCO
5. Ministerial Standing Committee on Scientific and Technological Cooperation, COMSTECH
6. Ministry of Finance, Government of Sudan.
7. Islamic Development Bank, Saudi Arabia.
8. Sudan Academy of Sciences, Sudan.
9. Agricultural Bank of Sudan, Sudan.

PROJECT MANAGEMENT:

1. **PI of NCR** team in 3-year project entitled, " New Medicines for Trypanosomatidic Infections (NMTrypI) " funded by European Union under FP7-HEALTH-2013-INNOVATION-1 program with total budget of 5.9 Million Euro
2. **Project Coordinator** (from April, 2005 - April. 2011): Project entitled, "*PHYTOCHEMICAL, PHARMACOLOGICAL AND TOXICOLOGICAL STUDIES ON MEDICINAL PLANTS OF SUDAN AND PAKISTAN*" 130,000 US \$ research project funded by the Islamic Development Bank (IDB) under COMSTECH-IDB Joint Scheme for Strengthening of Centers of Excellence in the OIC Member Countries.

GRADUATED RESEARCH STUDENTS:

The following students have graduated under Prof. Asaad supervision:

S. No.	Name of Student	Degree	Thesis title	Year	University
1.	Ms. Rania Mustafa Ahmed	Ph. D.	Discovery of new inhibitors of Plasmodium falciparum lactate dehydrogenase activity	2019	Faculty of Science, University of Khartoum
2.	Dr. Amel Mahmoud Abd Rabo	Ph. D.	Inhibition properties of medicinal plants constituents on neuraminidase enzyme isolated from viral and bacterial pneumonias	2018	Sudan Academy of Sciences
3.	Dr. Omer A Rahman	Ph. D.	The anticancer constituents of selected medicinal plants of Sudan: Pharmaceutical bioactivity guided fractionation approach	2018	Sudan Academy of Sciences
4.	Dr. Omer Salah Abdul Latif	Ph. D.	Evaluation and identification of drug hits from selected Sudanese medicinal plants	2017	Faculty of Science, University of Khartoum
5.	Dr. Eltayeb Fadul	Ph. D.	Discovery of natural antioxidant agents.	2017	Sudan Academy of Sciences
6.	Dr. Nahla Yousif	Ph. D.	Discovery of enzyme-inhibiting antitrypanosomal agents from medicinal plants	2017	Sudan Academy of Sciences
7.	Ms. Ghada Mohamed Taha	M. Sc.	The effect of pyridine and other organic solvents on the activity and thermal stability of some enzymes	2016	Sudan Academy of Sciences
8.	Ms. Yossra Abdelmalik M	M. Sc.	Identification of new cholinesterase inhibiting hits for Alzheimer's disease	2016	Faculty of Science, University of Khartoum
9.	Dr. Salih Osman Mohamed	Ph. D.	Physiological studies to discover natural inhibitors of bacterial urease enzyme	2016	Mansoura University, Egypt
10.	Dr. Amani Bashir	Ph. D.	Mechanistic studies on new enzyme inhibitors with antidiabetic potentials.	2014	Faculty of Science, University of Khartoum
11.	Dr. Talal Ahmed Awad	Ph. D.	Design and synthesis of potential cholinesterases-inhibiting anti-Alzheimer's compounds.	2014	Sudan Academy of Sciences
12.	Dr. Nadir Khalil	Ph. D.	Discovery of anti- tuberculosis agents using an innovative intramacrophage mycobacterium tuberculosis culture model.	2014	Sudan Academy of Sciences
13.	Dr. Hajir Ibrahim Wahbi	Ph. D.	Synthesis of heterocyclic compounds from heterochalcones via green chemistry, and inverse virtual screening of antimalarial and antileishmanial targets.	2014	Faculty of Science, University of Khartoum
14.	Dr. Sufyan Awadelkarim	Ph. D.	Biochemical studies on new enzyme inhibitors for the development of anti-malarial agents.	2013	Sudan Academy of Sciences
15.	Dr. Gihan Omer Hassan	Ph. D.	Chemical and biological activity of secondary metabolites in some Sudanese medicinal plants	2013	Faculty of Science, University of Khartoum
16.	Ms. Fatima Elfatih	M. Sc.	New anti-diabetic hits with glycogen phosphorylase -inhibiting properties.	2014	Sudan Academy of Sciences
17.	Ms. Ejlal Abdul Razig	M. Sc.	Evaluation of Antiplasmodial Activity of Selected Sudanese Medicinal Plants on the basis of Enoyl-ACP Reductase Inhibition	2015	Faculty of Pharmacy, University of Khartoum
18.	Mr. Mohamed Saeed Hamid	M. Sc.	<i>In silico</i> design of new acetylcholinesterase inhibitors for Alzheimer's disease	2015	Faculty of Pharmacy, University of Khartoum
19.	Ms. Rehab Yousif M. Idrees	M. Sc.	Homology modeling of serotonin receptors (5ht2a) (5ht2c) and <i>in silico</i> investigation of the potential binding of estrogenic ligands.	2013	Institute of Endemic Diseases, University of Khartoum

20.	Ms. Mayada Murtada	M. Sc.	Discovery of natural inhibitors of β -lactamases for the management of antibiotic resistance.	2012	Sudan Academy of Sciences
21.	Mr. Eltayeb Fadul	M. Sc.	Discovery of natural antioxidant agents.	2012	Sudan Academy of Sciences
22.	Ms. Aksam Sheikh Idriss Ali	M. Sc.	Effect of natural products on the level of thyroid hormones in rats.	2011	Sudan Academy of Sciences

SUPERVISED UNDERGRADUATE PROJECTS:

The following undergraduate (graduation) research projects were supervised by Prof. Asaad at the Faculty of pharmacy, University of Science & Technology, Sudan:

S. No.	Name of Student	Degree/year	Project title
1.	Ms. Fatima zo Elkifl	B. Pharma. /2010	Evaluation of butyrylcholinesterase inhibition using natural products <i>in vitro</i> versus <i>in silico</i> screening
2.	Ms. Mei Hassan A. Rahman	B. Pharma. /2010	Evaluation of acetylcholinesterase inhibition using natural products <i>in vitro</i> versus <i>in silico</i> screening
3.	Ms. Linda Haider A. Rahman Ahmed	B. Pharma. /2009	Evaluation of the antioxidant properties of lycopene-containing tomato (<i>solanum lycopersicum</i>) extracts.
4.	Ms. Doaa Elfatih M. Elsadig	B. Pharma. /2009	<i>In silico</i> prediction of potential acetylcholinesterase-inhibiting drugs for the treatment of Alzheimer's disease.
5.	Mr. Amjad Elfadil Syed Mohamed	B. Pharma. /2008	<i>In silico</i> discovery of anti-radical compounds that inhibit superoxide dismutase.
6.	Mr. Ahmed M. Ahmed Elfaki	B. Pharma. /2008	<i>In silico</i> discovery of anti-oxidant compounds that inhibit xanthine oxidase.
7.	Ms. Weiam Ahmed M. Elamin	B. Pharma. /2008	Anti-malarial drug discovery: Virtual screening of chemical libraries against ACP (acyl carrier protein) reductase of <i>Plasmodium falciparum</i> .
8.	Ms. Nahla A. Aziz M. Elamin	B. Pharma. /2008	Designing new antileishmanial drugs based on the inhibition of pteridine reductase.
9.	Ms. Sara Kamal Elrashid Mohamed	B. Pharma. /2008	Investigation on dihydrofolate reductase interactions with inhibitors for the development of better anticancer agents.

INTERNATIONAL COLLABORATION:

The following table shows the list of collaborative research projects currently being conducted with distinguished international scientists:

COLLABORATOR	PROJECT TITLE
Dr. Sean Prigge Johns Hopkins SPH Baltimore MD USA	Discovery of natural plasmodium <i>falciparum</i> and toxoplasma <i>gondii</i> specific enoyl-ACP reductase inhibitors as antimalarial and antitoxoplasmosis candidates.
Prof. Dr. M. Iqbal Choudhary Dr. Panjwani Center for Molecular Medicine & Drug Research, University of Karachi Pakistan	Discovery of plasmodium <i>falciparum</i> specific enoyl-ACP reductase inhibitors from medicinal plants as antimalarial candidates.
Prof. Dr. Antti Poso Head of Department of Pharmaceutical Chemistry, University of Kuopio Finland	Designing of new enzyme inhibitors using molecular modeling and QSAR studies

Prof. Dr. Leopold Flohé Dept. of Chemistry Otto-von-Guericke University, Magdeburg, Germany	Discovery of enzyme-inhibiting anti-trypanosoma agents from medicinal plants
Dr. Maria Lerm Faculty of Health Sciences, Linköping University, Sweden	Discovery of anti- tuberculosis agents using an innovative intramacrophage mycobacterium tuberculosis culture model
Dr. Zaheer-ul-Haq Qasmi Dr. Panjwani Center for Molecular Medicine & Drug Research , University of Karachi, Pakistan	Theoretical investigations of mechanism of cholinesterases inhibition by natural compounds using molecular dynamic simulation techniques.
Prof. Maria Paola Costi Drug Discovery and Biotechnology Lab Department of Life Science University of Modena and Reggio Emilia Modena, Italy	New Medicines for Trypanosomatidic Infections

COMPUTER SKILLS:

Highly skilled in most of the common and many of the specialized computer software, e.g. Windows and Linux OSs, MS Office, statistical analysis programs e.g. SPSS, SpectraMax Pro, Chem. Office, Chem. Draw, GraFit, docking and protein visualization programs, Internet programs, etc.

POSTGRADUATE EXAMINATION:

I have been selected as an external/internal examiner for the following postgraduate thesis:

- External Examiner for Doctoral thesis entitled, "The in vitro and in vivo evaluations of newly formulated osteoprotegerin-chitosan gel in bone regeneration", Thesis submitted to Faculty of Dentistry, **University of Malaya**, Kuala Lumpur, Malaysia (2017).
- *Phytochemical Analysis, Biological Activity and Cytotoxic Effect of Selected Sudanese Medicinal Plants*. Thesis submitted to Faculty of Engineering and Technology, **University of Gezira** for Ph.D. Degree by Ms. Hayat Osman Ali Dahawi (2009).
- *Investigations of FT₄, FT₃ and TSH Hormones in Pregnant Sudanese Women in Khartoum State*. Thesis submitted to **Sudan Academy of Sciences** for M. Sc. Degree by Mr. Adil A. A. Omer (2008).
- *Evaluation of Blood Glucose and Thyroid Function among Sudanese Diabetic Patients*. Thesis submitted to **Sudan Academy of Sciences** for M. Sc. Degree by Mrs. Majda O Abdalla (2008).

PROFESSIONAL AFFILIATIONS:

2024- Member of Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) Collaborator Network, Seattle, USA
 2014- TWAS-UNESCO Associate
 2013- Fellow of the Sudan National Academy of Science
 2011- Fellow of the African Scientific Institute (ASI).
 2009- Member, COST (European Cooperation in Science and Technology) CMST Action CM0801 "*New Drugs for Neglected Diseases*".
 2009 - Young Affiliate Fellow of The Academy of Science for the Developing World (TWAS).
 2007 - Member of the Scientific Council of the National Center for Research, Sudan.
 2007 - Member, Sudanese Society of Natural Products.
 1997 - Member, Chemical Society of Pakistan.
 2000-2003 Academic Editor for Evidence-Based Complementary and Alternative Medicine

LANGUAGES:

- English: Fluent in written and spoken English.
- Arabic: Mother tongue.

WORKSHOPS/SCIENTIFIC MEETING ORGANIZED/INSTRUCTED:

Prof. Asaad has organized, taught and/or instructed the following International and National scientific meetings:

- 1- **1st International Workshop on Computer-Aided Drug Design:** invited to instruct this workshop, which was organized by the Department of Chemistry, Faculty of Science, University of Jordan Amman, Jordan during April 23-25, 2013?
- 2- **First Arab-American Frontiers Symposium:** selected by the US National Academies to serve as a member of the organizing committee of the first Arab-American Frontiers symposium organized by US National Academies and Kuwait Institute for Scientific Research (KISR), Kuwait, October 17-19, 2011.
- 3- **5th National Training Course on Computational Chemistry** (March 13-17, 2011): organized and instructed this course in which 57 researchers and students have been trained on Molecular modeling and Docking.
- 4- **4th National Training Course on Computational Chemistry** (June 26-29, 2009): organized and instructed this course which was organized in collaboration with the University of Gezira, Gezira, Sudan, twenty researchers and university teachers from University of Gezira and Affiliated Institutions have been trained on Molecular Docking and its Applications on Designing of Bioactive Molecules.
- 5- **One-day International Seminar on Boosting Indigenous Research for Sustainable Development in Sudan and Third World Countries** (Khartoum, August 14, 2008): organized this international seminar, which included several lectures and a round-table open discussions on the current challenges facing the scientific research in the Third World countries including Sudan and the opportunities for real sustainable development in these countries.
- 6- **1st International Workshop on Molecular Pharmacology and Immunology** (August 4-13, 2008): Organized this international course, which has trained 45 researchers and university teachers from 10 Sudanese universities/research institutes on modern techniques in Molecular Pharmacology and Molecular Immunology.
Course website: <http://mpiworkshop.googlepages.com>.
- 7- **3rd National Training Course on Computational Chemistry** (Aug 11-17, 2007): organized and instructed this course, which was organized in collaboration with the University of Gezira, Gezira, Sudan, thirty two researchers and university teachers from University of Gezira and Affiliated Institutions have been trained on Molecular Docking and its Applications on Designing of Bioactive Molecules.
- 8- **2nd National Training Course on Computational Chemistry** (July 1-5, 2007): organized and instructed this course, which has trained 26 researchers and university teachers from 9 Sudanese universities/research institutes on Molecular Docking and its Applications on Drug Designing.
Course website: <http://medicalbiochem.googlepages.com>.
- 9- **1st National Training Course on Computational Chemistry** (Dec .19-26, 2006): organized and instructed this course, which has trained 27 researchers and university teachers from 8 Sudanese universities/research institutes on Molecular Docking and its applications on Drug Designing.
Course website: <http://trainingcourse1.googlepages.com>.

WORKSHOPS AND TRAINING COURSES ATTENDED:

1. Participate as a trainer in the computer-Aided Drug Design" workshop held at the University of Jordan, Amman, Jordan during April 23-25, 2013.
2. Delivered a lecture in the Khartoum Winter School of Bioinformatics and Statistical Genetics jointly organized by Department of Molecular Biology, Institute of Endemic Diseases, and University of Khartoum in collaboration with University of Cambridge UK in Khartoum, Sudan, January 8-12, 2012.

3. Participated and delivered lecture in the Multidisciplinary Scientific Workshop held in parallel with the 1st Arab-American Frontiers of Science, Engineering, and Medicine symposium, Kuwait, October, 16, 2011.
4. Delivered a lecture in the Khartoum Winter School of Bioinformatics and Statistical Genetics jointly organized by Department of Molecular Biology, Institute of Endemic Diseases, and University of Khartoum in collaboration with University of Cambridge UK in Khartoum, Sudan, January 8-12, 2011.
5. Participated in the 1st iDDi Workshop in Neglected and Orphan Diseases organized by The International Drug Discovery Institute (USA) and the University of Siena (Italy) in Siena, Italy, May 29- June 1, 2010.
6. Invited by the European Commission to participate as an expert in a joint EU/WHO symposium entitled "Improved Tools for the Elimination of Malaria in Africa: Research for New Drugs and Innovative Diagnostics" held in Nairobi on Nov. 6, 2009.
7. Participated and delivered lecture in the Khartoum Winter School of Bioinformatics and Statistical Genetics jointly organized by Department of Molecular Biology, Institute of Endemic Diseases, and University of Khartoum in collaboration with University of Cambridge UK in Khartoum, Sudan, January 4-9, 2009.
8. Participated and delivered lecture in the 1st National Pakistan Proteomics Society Life Sciences- HEC Workshop" Karachi, Pakistan, February 3-5, 2007.
9. Participated and delivered lecture in the First International Workshop-Cum-Training Course on Molecular Medicine & Drug Research, Karachi-Islamabad, Jan 16-30, 2007
10. Participated in the one-day workshop on *Environmental Biotechnology: Past, Present and Future* organized by the Institute of Environmental Science and Engineering, National University of Sciences & Technology (NUST), Rawalpindi, Pakistan and the Michigan State University, USA Dec. 31, 2005.
11. Participated in the one-day workshop on *How to Write and Publish a Scientific Paper* organized by the Center for Molecular Genetics, University of Karachi, Pakistan and the University of Illinois, Chicago, USA on Dec. 9, 2005.
12. Participated, delivered lecture and instructed a practical session in the *Pak-China Binational Workshop on the Pharmacology and Standardization of Herbal Medicines*, Karachi, Pakistan, Oct. 22-27, 2004.
13. Participated and delivered lecture in the *Workshop on Bioinformatics*, Karachi, Pakistan, Oct. 4, 2004.
14. Participated in *International NIBGE-COMSTECH (CPC) Workshop on Advanced Techniques in Biotechnology*, Faisalabad, Pakistan, Jan. 5-17, 2004.
15. Participated in *Postgraduate Workshop on Application of Cell-culture Technology and Immunodiagnosics*, Karachi, Pakistan, Dec. 15-20, 2003.
16. Participated and delivered lecture in the *SAARC-HEJ International Training Course on Bioassay and Pharmaceutical Techniques for Drug Development*, Karachi, Pakistan, Oct. 10-15, 2003.
17. Participated in The HEJ-COMSTEC-TWAS workshop on the "Development of Medicine from Plants", Karachi, Pakistan, Sept. 8-13, 2003.
18. Participated in the *HEJRIC-TOKTEN Workshop on Immunoassay for Detection of Biomolecules*, Karachi, Pakistan, March 13, 2000.
19. Participated in the *HEJRIC-TOKTEN Workshop on Cellular and Molecular Mechanism of Programmed Cell Death (Apoptosis)*, Karachi, Pakistan, Feb. 28-March 4, 2000.
20. Participated in *H.E.J.-COMSATS International Workshop on The Use of Spectroscopic Techniques in the Structural Organic Chemistry*, Karachi, Feb. 14-21, 2000.
21. Participated and instructed a practical session in the *International Workshop on The Technology for Product Development from Medicinal Plants*, Karachi, Pakistan, Jan. 21-27, 2000.
22. Participated and delivered lecture in the *Second National Workshop on The Use of Bioassay Techniques for the New Drug Development*, Karachi, Pakistan, Aug. 26-28, 1999.
23. Participated in the *International Workshop on University-Industry Interaction* jointly organized by COSTECH and ISESCO, Karachi, Pakistan, Sep.12-13, 1997.
24. Participated, delivered lecture and member of organizing committee of the *Workshop on The Use of Bioassay Techniques for the New Drug Development*, Karachi, Pakistan, July 8, 1997.

C. CONFERENCES, SEMINARS AND SYMPOSIA ATTENDED:

1. Participated, delivered an invited lecture and chaired session in the 1st Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-2013), Gazimagosa, The Northern Cyprus, April 17-20, 2013.
2. Participated, delivered lecture, chaired session and juried the poster session in the 5th International Conference on Drug Discovery & Therapy, Dubai, UAE, Feb. 18-21, 2013.
3. Participated and delivered a lecture in the 4th International Symposium-Cum-Training Course on Molecular Medicine and Drug Research, Karachi, Pakistan, Jan. 7 - 10, 2013.
4. Participated and delivered a lecture in the Conference of Arab expatriate scientists "when Arab minds integrate" headquarters of the Arab League, Cairo, Egypt, Dec. 19-20, 2012.
5. Participated in the TWAS 12th General Conference and 23rd General Meeting, Tianjin, China, Sept. 18-21, 2012.
6. Participated in the Keystone Symposium: E1, Drug Resistance and Persistence in Tuberculosis, Kampala, Uganda, May 13-18, 2012.
7. Participated and presented a keynote lecture at the International Conference of Young Chemists, Jordan, Amman, April 8-10, 2012.
8. Participated in the TWAS/BVA.NXT 2012 and the BioVision Alexandria 2012, Alexandria, Egypt, April 21-25, 2012
9. Participated in The Academy of Science for the Developing World Arab Regional Office (TWAS-ARO) 7th Annual Meeting "Water, Nuclear and Renewable Energy: Challenges versus Opportunities", Alexandria, Egypt, Dec. 28-29, 2011.
10. Participated in TWAS 22nd General Meeting, Trieste, Italy, Nov. 21-23, 2011.
11. Participated and delivered a lecture in the 4th ANDI Stakeholders Meeting and Donor Conference, Addis Ababa, Ethiopia, Oct. 24 – 27, 2011.
12. Participated and organized a session in the 1st Arab-American Frontiers of Science, Engineering, and Medicine symposium, Kuwait, Oct. 17-19, 2011.
13. Participated and delivered a lecture the 3rd Annual Meeting of the COST CM0801 action "New drugs for neglected diseases & Medicinal Chemistry in Parasitology", Modena, Italy, Oct. 5-7, 2011.
14. Participated (as an observer) in the 17th Annual German-American Kavli Frontiers of Science Symposium, Irvine, California, USA, April 8-11, 2011.
15. Participated and delivered a lecture in the 12th International Symposium on Natural Products Chemistry (ISNPC-12), Karachi, Pakistan, Nov. 22 - 25, 2010.
16. Participated in the TWAS 21st General Meeting, Hyderabad, India, Oct. 19-22, 2010.
17. Participated in the 3rd Stakeholders meeting of the African Network on Drugs and Diagnostics Innovation (ANDI) organized by WHO/TDR, United Nations Office, Nairobi, Kenya, Oct. 11-13, 2010.
18. Participated and delivered an invited lecture in the 11th Eurasia Conference on Chemical Sciences (EuAsC2S-11) held at the Dead Sea-Jordan, during Oct. 6-10, 2010.
19. Participated (upon selection) in the 60th Lindau Nobel Laureate Meeting, Lindau, Germany June 27-July 2, 2010.
20. Participate and delivered a lecture in the 2nd Joint Expert Meeting among Working Groups 1/2/3/4 and MC Meeting of the COST (European Cooperation in Science and Technology) Action CM0801, Siena, Italy, May 28-30, 2010.
21. Participated as a Rapporteur to the 1st preparatory meeting for the Arab Encyclopedia of Life (AEOL), Bibliotheca Alexandrina, Alexandria, Egypt, April 13, 2010.
22. Participated in BioVision Alexandria 2010, Alexandria, Egypt, April 12-15, 2010.
23. Participated in TWAS/BVA.NXT 2010, Alexandria, Egypt, April 10-11, 2010.
24. Participated in The 5th MIM Pan- African Malaria Conference, Nairobi, Kenya, Nov. 2-6, 2009.
25. Participated in the Keystone Symposium on Overcoming the Crisis of TB and AIDS organized by Bill and Melinda Gates Foundation, Arusha, Tanzania, Oct. 20-25, 2009.
26. Participated, delivered lecture and got inducted (as a young affiliate fellow) in the Third-World Academy of Sciences (TWAS) 11th General Conference, Durban, South Africa, Oct. 19-23, 2009.

27. Participated and delivered lecture in the Bright Ideas session of the 2nd Stakeholders meeting of the African Network on Drugs and Diagnostics Innovation (ANDI) organized by WHO/TDR, Cape Town, South Africa, Oct. 4-6, 2009.
28. Participated, chaired a session and delivered lecture in the ESF-COST High-Level Research Conference on Natural Products Chemistry, Biology and Medicine II, organized by European Science Foundation (ESF) and European Cooperation in Science and Technology (COST), Acquafredda di Maratea, Italy, August 29- Sep. 3, 2009.
29. Participated and presented poster in the EUROPE-AFRICA Conference on Infectious Diseases from Basic to Translational Research, organized by European Science Foundation (ESF Research Conferences) Cape Town, South Africa, April 4-9, 2009.
30. Participated and delivered lecture in the 11th International Symposium on Natural Product Chemistry, Karachi, Pakistan, Oct. 29-Nov. 01, 2008.
31. Participated in the Keystone Symposia E3 Malaria: Immunology, Pathogenesis and Vaccine Perspectives, Alpbach, Austria, Jun 8-13, 2008.
32. Participated, Co-chaired a session and delivered lecture in the 1st International Conference on Drug Design and Discovery, Dubai, UAE, Feb. 4-7, 2008.
33. Participated and Co-chaired a session on the 8th Scientific Conference on Endemic and Emerging Diseases: New Trends in Diagnosis and Control, Khartoum, Sudan Aug. 21- 23, 2007.
34. Participated and delivered lecture in the 1st International Symposium and Workshop-cum-Training Course on Molecular Medicine and Drug Research Islamabad, Pakistan, Jan.16-30 2007.
35. Participated and delivered lecture in the 9th International Symposium on Protein Structure Function Relationship, Karachi, Pakistan, Jan. 11-14, 2007
36. Participated and delivered lecture in the 10th International Symposium on Natural Product Chemistry, Karachi, Pakistan, Jan. 6-9, 2006.
37. Participated and delivered lecture in the 18th FAOBMB International Symposium, Lahore, Pakistan, Nov. 20-23, 2005.
38. Participated and delivered lecture in the AFASSA Symposium on Natural Product Chemistry, Karachi, Pakistan, July 25-27, 2005.
39. Participated and delivered lecture in the 8th Biennial National Conference of PSBMB (Pakistan Society for Biochemistry and Molecular Biology), Karachi, Pakistan, March 7-9, 2005.
40. Participated and delivered lecture in the 8th International Symposium on Protein Structure Function Relationship, Karachi, Pakistan, Jan. 7-10, 2005.
41. Participated in the 9th International Symposium on Natural Product Chemistry, Karachi, Pakistan, Jan. 10-13, 2004.
42. Participated in Seminar on "Vaccine Development, Production and Utilization in Developing Countries: Issues, Prospects and Implications for Pakistan", Karachi, Pakistan, Aug. 8-10, 2003.
43. Participated in Bangladesh-Pakistan Binational Seminar on Natural Products Chemistry, Karachi, Pakistan, Sep. 24-26, 2002.
44. Participated in the 7th Euroasia Conference on Chemical Sciences, Karachi, Pakistan, March 9-12, 2002.
45. Participated and delivered lecture in the 6th National Conference on Biochemistry and Molecular Biology, Khairpur, Pakistan, Feb. 15-17, 2001.
46. Participated in the 8th International Symposium on Natural Product Chemistry, Karachi, Pakistan, Jan. 18-21, 2000.
47. Participated in the 6th International Symposium on Protein Structure-Function Relationship, Karachi, Pakistan, Feb. 5-7, 1999.
48. Participated and delivered lecture and poster in the 9th National Chemistry Conference, Karachi, Pakistan, Dec. 4-6, 1998.
49. Participated in the 7th International Symposium on Natural Product Chemistry, Karachi, Pakistan, from Dec. 28, 1997 to Jan. 1, 1998.
50. Participated in the 5th International Symposium on Protein Structure-Function Relationship, Karachi, Pakistan, in Jan 6-9, 1997.

LIST OF PUBLICATIONS

Web of Science metrics

196 Publications

H-Index = 26

Author Position ⓘ

First 5%
Last 13%
Corresponding 24%

Scopus metrics

173 Documents

h-index = 27

PEER-REVIEWED ISI RESEARCH PUBLICATIONS

S. No.	Publication	IF/Rank
2024		
1.	Subtractive genomics integrated with deep learning, molecular docking, and MD simulation decipher therapeutic drug targets and their potential inhibitors against <i>Nocardia farcinica</i> strain IFM 10152.; Almufarriji, F.M., Ajmal, A., Alotaibi, B.S. et al.; Chem. Pap. (2024). (Corresponding author) [DOI: 10.1007/s11696-024-03755-1]	2.1 Q3
2.	A Paradigm Shift in the Detection of Bloodborne Pathogens: Conventional Approaches to Recent Detection Techniques. Khanal S, Pillai M, Biswas D, Islam MT, Verma R, Kuca K, et al.; Excli Journal. 2024;23:1245-75. (Corresponding author) [DOI: 10.17179/excli2024-7392]	3.8 Q1
3.	<i>Acacia ehrenbergiana</i> (Hayne) and <i>Prosopis juliflora</i> Extracts Promote the Survival of <i>Caenorhabditis elegans</i> Infected with Methicillin-Resistant <i>Staphylococcus aureus</i> . Zarroug SHO, Nammor T, Eisa S, Hamoor R, Ibrahim L, Shata Y, et al.; Natural Product Communications. 2024;19(8):9. [DOI: 10.1177/1934578x241279065]	1.5 Q4
4.	Bioactive compounds from nature: Antioxidants targeting cellular transformation in response to epigenetic perturbations induced by oxidative stress. Bouyahya A, Bakrim S, Aboulaghras S, El Kadri K, Aanniz T, Khalid A , et al.; Biomedicine & Pharmacotherapy. 2024;174:26. [DOI: 10.1016/j.biopha.2024.116432]	6.9 Q1 Top 10%
5.	Bioactive substances of cyanobacteria and microalgae: Sources, metabolism, and anticancer mechanism insights. Bouyahya A, Bakrim S, Chamkhi I, Taha D, El Omari N, El Mneyiy N, et al.; Biomedicine & Pharmacotherapy. 2024;170:24. [DOI: 10.1016/j.biopha.2023.115989]	6.9 Q1 Top 10%
6.	Bioassay Guided Isolation and α -Glucosidase Inhibition Studies of a New Sesquiterpene from <i>Ochradenus aucheri</i> . Al Rabani HKM, Khan A, Rizvi TS, Ali L, Hussain J, Mabood F, et al.; Current Topics in Medicinal Chemistry. 2024:7. [DOI: 10.2174/0115680266318007240924174634]	2.9 Q3
7.	Bioinorganic metal nanoparticles and their potential applications as antimicrobial, antioxidant and catalytic agents: a review. Naseem K, Aziz A, Khan ME, Ali S, Khalid A . Reviews in Inorganic Chemistry. 2024:30. [DOI: 10.1515/revic-2023-0040]	4.1 Q1
8.	Biomedical and agricultural applications of gold nanoparticles (AuNPs): a comprehensive review. Khan S, Khan RS, Khalid A , Gul M, Brekhna, Wadood A, et al.; Zeitschrift Fur Physikalische Chemie-International Journal of Research in Physical Chemistry & Chemical Physics. 2024;238(8):1383-412. [DOI: 10.1515/zpch-2023-0539]	3 Q3
9.	Bridging autoimmunity and epigenetics: The influence of lncRNA MALAT1. Mohan S, Hakami MA, Dailah HG, Khalid A , Najmi A, Zoghebi K, et al.; Pathology Research and Practice. 2024;254:11. [DOI: 10.1016/j.prp.2023.155041]	2.9 Q2

10.	Burden of disease scenarios for 204 countries and territories, 2022-2050: a forecasting analysis for the Global Burden of Disease Study 2021; GBD 2021 Forecasting Collaborators; Lancet. 2024 May 18;403(10440):2204-2256. DOI: 10.1016/S0140-6736(24)00685-8.	98.4 Q1 Top 1%
11.	Chemistry, Biological Activities, and Pharmacological Properties of Gastrodin: Mechanism Insights. El Meniy N, Elouafy Y, Moubachir R, Abdnim R, Benali T, Taha D, et al.; Chemistry & Biodiversity. 2024;21(6):16. [DOI: 10.1002/cbdv.202400402]	2.3 Q3
12.	Clinical applications and mechanism insights of natural flavonoids against type 2 diabetes mellitus. Bouyahya A, Balahbib A, Khalid A , Makeen HA, Alhazmi HA, Albratty M, et al.; Heliyon. 2024;10(9):40. [DOI: 10.1016/j.heliyon.2024.e29718]	3.4 Q1
13.	Comparative analysis of dye degradation methods: unveiling the most effective and environmentally sustainable approaches, a critical review. Nisa FU, Naseem K, Aziz A, Hassan W, Fatima N, Najeeb J, et al.; Reviews in Inorganic Chemistry. 2024:32. [DOI: 10.1515/revic-2024-0042]	4.1 Q1
14.	Comparison of Epsilometer Test and Disc Diffusion Methods for Antibiotic Susceptibility Testing of Pseudomonas Aeruginosa; HE Homeida, A Khalid, NMH Elamin, OY Dawod; Nanotechnology Perceptions, 755–761-755–761 DOI : 10.62441/nano-ntp.v20iS3.56	SCOPUS
15.	Computational insights into KRAS G12C inhibition: exploring possible repurposing of Azacitidine and Ribavirin. Sharma V, Kumar A, Rawat R, Gulati M, Behl T, Khalid A , et al.; Journal of Biomolecular Structure & Dynamics. 2024:11. [DOI: 10.1080/07391102.2024.2321237]	2.7 Q2
16.	Cytotoxic activity, selectivity, and clonogenicity of fruits and resins of Saudi medicinal plants against human liver adenocarcinoma. Alghamdi AH, Ahmed AAE, Bashir M, Abdalgadir H, Khalid A , Abdallah ME, et al.; Drug Target Insights. 2024;18:84-93. [DOI: 10.33393/dti.2024.3169]	2 Q3
17.	Discovery of Novel Natural Inhibitors Against SARS-CoV-2 Main Protease: A Rational Approach to Antiviral Therapeutics. Waqas M, Ullah S, Halim SA, Ullah I, Rehman NU, Jan AF, et al.; Current Medicinal Chemistry. 2024:23. [DOI: 10.2174/0109298673292839240329081008]	3.5 Q2
18.	Disrupting protease and deubiquitinase activities of SARS-CoV-2 papain-like protease by natural and synthetic products discovered through multiple computational and biochemical approaches. Waqas M, Ullah S, Ullah A, Halim SA, Rehman NU, Khalid A , et al.; International Journal of Biological Macromolecules. 2024;277:20. [DOI: 10.1016/j.ijbiomac.2024.134476]	7.7 Q1 Top 10%
19.	Effect of smokeless tobacco on color stability and surface roughness of CAD/CAM milled, 3D printed, and conventional provisional crown and fixed dental prosthesis materials: An <i>in vitro</i> study. Sayed ME, Jain S, Jokhadar HF, Alshahrani AA, AlResayes SS, Alqahtani SM, et al.; Technology and Health Care. 2024;32(3):1697-711. [DOI: 10.3233/thc-230723]	1.4 Q3
20.	Efficient microwave synthesis of flurbiprofen derivatives and their enhancement of efficacy in chronic inflammatory pain models and gastro-protective potential in post-operative model. Shah NZ, Khan A, Halim SA, Avula SK, Ul Islam N, Khan I, et al.; Journal of Biomolecular Structure & Dynamics. 2024:16. [DOI: 10.1080/07391102.2024.2309645]	2.7 Q2
21.	Enhancement efficacy of omeprazole by conjugation with silver nanoparticles as a urease inhibitor. Zia A, Shahzad A, Riaz N, Khan S, Farooq U, Bukhari SM, et al.; Green Processing and Synthesis. 2024;13(1):13. [DOI: 10.1515/gps-2023-0229]	3.8 Q2
22.	Evaluation of chalcones as new glycogen phosphorylase inhibitors - an <i>in-vitro</i> and <i>in-silico</i> approach. Awad TA, Alfatih F, Shafiq M, Abdalla M, Al-Shouli ST, Bashir A, et al.; Natural Product Research. 2024:8. [DOI: 10.1080/14786419.2024.2324110]	1.9 Q3

23.	Examining the potential of peppermint essential oil-infused pectin and kappa-carrageenan composite films for sustainable food packaging. Bhatia S, Alhadhrami AS, Shah YA, Esatbeyoglu T, Koca E, Aydemir LY, et al.; Heliyon. 2024;10(17):10. [DOI: 10.1016/j.heliyon.2024.e36895]	3.4 Q1
24.	Exploring the Anticancer Potential of Astragalin in Triple Negative Breast Cancer Cells by Attenuating Glycolytic Pathway through AMPK/mTOR. Zeb A, Khan W, Islam WU, Khan F, Khan A, Khan H, et al.; Current Medicinal Chemistry. 2024;14. [DOI: 10.2174/0109298673304759240722064518]	35 Q2
25.	Exploring the chemistry, biological effects, and mechanism insights of natural coumaroyltyramine: First report. Bakrim S, Elouafy Y, Touhtouh J, Aanniz T, El Kadri K, Khalid A , et al.; Fitoterapia. 2024;178:17. [DOI: 10.1016/j.fitote.2024.106182]	2.5 Q3
26.	From inflammation to metastasis: The central role of miR-155 in modulating NF-κB in cancer. Mohan S, Hakami MA, Dailah HG, Khalid A , Najmi A, Zoghebi K, et al.; Pathology Research and Practice. 2024;253:10. [DOI: 10.1016/j.prp.2023.154962]	2.9 Q2
27.	GC-MS Profiling and Therapeutic Potentials of <i>Prosopis juliflora</i> (Sw.) DC: Cytotoxic and Antimicrobial Insights. Khalid A , Abdalgadir EA, Gadir IKA, Abdalla AN, Homeida HE, Sultana S, et al.; Journal of Spectroscopy. 2024;2024:10. [DOI: 10.1155/2024/1121745]	1.7 Q3
28.	Global incidence, prevalence, years lived with disability (YLDs), disability-adjusted life-years (DALYs), and healthy life expectancy (HALE) for 371 diseases and injuries in 204 countries and territories and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021; GBD 2021 Diseases and Injuries; Collaborators. Lancet. 2024 May 18;403(10440):2133-2161. DOI: 10.1016/S0140-6736(24)00757-8.	98.4 Q1 Top 1%
29.	Health benefits, pharmacological properties, and metabolism of cannabino: A comprehensive review. Khouchlaa A, Khouri S, Hajib A, Zeouk I, Amalich S, Msairi S, et al.; Industrial Crops and Products. 2024;213:15. [DOI: 10.1016/j.indcrop.2024.118359]	5.6 Q1 Top 10%
30.	Herbal remedies in the management of hyperuricemia and gout: A review of in vitro, in vivo and clinical evidences. Mahomoodally MF, Coodian K, Hosenally M, Zengin G, Shariati MA, Abdalla AN, et al.; Phytotherapy Research. 2024;38(7):3370-400. [DOI: 10.1002/ptr.8211]	6.1 Q1 Top 10%
31.	Identification of IL-2 inducible tyrosine kinase inhibitors by quantum mechanics and ligand based virtual screening approaches. Khan A, Zia K, Khan SA, Khalid A , Abdalla AN, Bibi M, et al.; Journal of Biomolecular Structure & Dynamics. 2024;42(7):3630-40. [DOI: 10.1080/07391102.2023.2214220]	2.7 Q2
32.	Identification of new potent NLRP3 inhibitors by multi-level in-silico approaches. Hayat C, Subramaniyan V, Alamri MA, Wong LS, Khalid A , Abdalla AN, et al.; BMC Chemistry. 2024;18(1):18. [DOI: 10.1186/s13065-024-01178-3]	4.3 Q2
33.	Identification of Novel Antileishmanial Chemotypes By High-Throughput Virtual and <i>In Vitro</i> Screening. Khan H, Hakami MA, Alamri MA, Alotaibi BS, Ullah N, Khan R, et al.; Acta Parasitologica. 2024;69(3):1439-57. [DOI: 10.1007/s11686-024-00899-8]	1.2 Q2
34.	Identification of novel NLRP3 inhibitors as therapeutic options for epilepsy by machine learning-based virtual screening, molecular docking and biomolecular simulation studies. Zulfat M, Hakami MA, Hazazi A, Mahmood A, Khalid A , Alqurashi RS, et al.; Heliyon. 2024;10(15):14. [DOI: 10.1016/j.heliyon.2024.e34410]	3.4 Q1
35.	Initial report on the multiple biological and pharmacological properties of hispolon: Exploring stochastic mechanisms; T Aanniz, I Zeouk, Y Elouafy, J Touhtouh, R Hassani, K Hammani, ; Biomedicine & Pharmacotherapy 177, 117072 DOI: 10.1016/j.biopha.2024.117072.	6.9 Q1 Top 10%

36.	Innovative Encapsulation Strategies for Food, Industrial, and Pharmaceutical Applications. Aanniz T, El Omari N, Elouafy Y, Benali T, Zengin G, Khalid A , et al.; Chemistry & Biodiversity. 2024;21(5):28. [DOI: 10.1002/cbdv.202400116]	2.3 Q3
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