

# PROF. DR. ASAAD KHALID MOHAMED ALI AHMED HIGHLIGHTS



**Asaad Khalid**

Born in Fadasi, SUDAN  
on January 1, 1972

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## Research metrics (Web of Science)

- H-Index: 28
- Documents: 266
- CNCI: 2.41

## Research metrics (Scopus)

- H-Index: 31
- Documents: 211
- FWCI: 9.02

- Global Burden of Disease (GBD) Study Senior Collaborator
- Fellow of the Sudan National Academy of Science.
- Young Affiliate Fellow of The Academy of Science for the Developing World (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, Jazan, Saudi Arabia.

**Research Professor** (July 2011- Nov. 24, 2013) Medicinal and Aromatic Plants Research Institute, National Center for Research, 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, Khartoum, Sudan.

**Head, Medical Biochemistry Research Unit** (Jan. 2007- Nov 2013), Medicinal and Aromatic Plants Research Institute, National Center for Research, 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, 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 266 research publications in leading international journals (h-index = 31).** Prof. Asaad has delivered more than **51** 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 addresses several tropical and neglected diseases, including malaria, diabetes, tuberculosis, leishmaniasis, and trypanosomiasis. In addition, his work extends to anticancer drug discovery, where he investigates natural products and their derivatives as potential modulators of cancer-related targets and pathways. Prof. Asaad's target-based drug discovery research utilizes enzyme inhibition methods to identify promising drug candidates that interfere with specific enzyme-related disease mechanisms. He also employs bioinformatics tools such as molecular docking and molecular dynamic simulation to explore molecular recognition patterns in ligand-receptor complexes, accelerating the rational design of new therapeutic agents. His research has significant translational potential, aiming to deliver lead compounds against both infectious diseases and cancer. Prof. Asaad's collaborations include many distinguished scientists from the USA, Germany, Finland, Sweden, Oman, Morocco, Pakistan, and India.

## Curriculum Vitae

**PROF. DR. ASAAD KHALID MOHAMED ALI AHMED,**

Health Research Center, Jazan University, Jazan- 82817, Saudi Arabia.

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### 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, Jazan University, P. O. Box: 114, Jazan- 45142, Saudi Arabia.

**Research Professor** (July, 2011- Nov. 24, 2013)

Medicinal and Aromatic Plants Research Institute, National Center for Research, El-Mak Nimir Street, 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, Khartoum, Sudan.

**Associate Professor** (Dec., 2006- June, 2011)

Medicinal and Aromatic Plants Research Institute, National Center for Research, El-Mak Nimir Street, Khartoum, Sudan.

**Rapporteur** of the Ministerial Council of Science and Technology (Aug., 2010- March, 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:** Prof. Asaad has supervised nine graduation research projects (see page 6 for details).
- **Visiting Professor** (Jan. 2010- present) 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:** Prof. Asaad has organized, taught and/or instructed one International and five *National Training Courses on Computational Chemistry and Molecular Modeling/Drug Design*. Moreover, Prof. Asaad has 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 more than 51 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.
- **Anticancer Drug Discovery:** Exploring natural products and synthetic derivatives as modulators of cancer-related targets and signalling pathways.

## 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 groundbreaking research 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 (h-index = 30), contributing significantly to the fields of enzymology and drug discovery.
- **Patents:** Secured multiple international patents spanning Saudi Arabia, Germany, and Japan, reflecting impactful innovations in drug discovery, green chemistry, and biomedical applications.

## 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.
- **Granted Patents:**

Country	Patent Number	Title	Summary
Saudi Arabia	SA 19652	Benzylidene-2,4-thiazolidinedione derivatives for the treatment of diabetes and pharmaceutical compositions thereof	Novel thiazolidinedione derivatives as anti-diabetic agents acting on PPAR $\gamma$ with good safety and efficacy.
	<a href="https://ipsearch.saip.gov.sa/search?workstreamId=1&amp;sort=mostRelevant&amp;filterEnabled=false&amp;q=fn+is+%22123447201%22&amp;page=1">https://ipsearch.saip.gov.sa/search?workstreamId=1&amp;sort=mostRelevant&amp;filterEnabled=false&amp;q=fn+is+%22123447201%22&amp;page=1</a>		
Japan	JP 3251681	Synthesis apparatus of GO-Ag nanocomposite using Himalrandia tetrasperma leaf extract	Green synthesis apparatus for silver-graphene oxide nanocomposites with antimicrobial and biomedical potential.
	<a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=JP458621189">https://patentscope.wipo.int/search/en/detail.jsf?docId=JP458621189</a>		
Germany	G25039DE /DE202025100774U1	A System for the Synthesis of Chitosan-grafted Copolymer/Graphene Oxide Hydrogels for Drug Delivery	Innovative biomedical or pharmaceutical application (exact claims not disclosed).
	<a href="https://worldwide.espacenet.com/patent/search?q=pn%3DDE202025100774U1">https://worldwide.espacenet.com/patent/search?q=pn%3DDE202025100774U1</a>		
Germany	G25041DE /DE202025100798U1	Plant-based Nanomaterial or Diagnostic Tool	Innovations in green nanomaterials or diagnostic systems with interdisciplinary relevance.
	<a href="https://worldwide.espacenet.com/patent/search/family/095158496/publication/DE202025100798U1?q=pn%3DDE202025100798U1">https://worldwide.espacenet.com/patent/search/family/095158496/publication/DE202025100798U1?q=pn%3DDE202025100798U1</a>		
Germany	G25059DE /DE202025100801U1	Green Chemistry Therapeutic Application	Patent related to molecular or green chemistry for therapeutic and diagnostic applications.
	<a href="https://worldwide.espacenet.com/patent/search/family/095251397/publication/DE202025100801U1?q=202025100801">https://worldwide.espacenet.com/patent/search/family/095251397/publication/DE202025100801U1?q=202025100801</a>		
Germany	G25374DE /202025103015	A system for isolating Ethyl- $\alpha$ -D-Glucopyranoside from the aerial parts of <i>Otostegia fruticosa</i> ssp. <i>schimperi</i> (Benth.) Sebald	A modular apparatus for isolating ethyl- $\alpha$ -D-glucopyranoside from the aerial parts of <i>Otostegia fruticosa</i> ssp. <i>schimperi</i> collected in Al-Baha, KSA,
	<a href="https://worldwide.espacenet.com/patent/search/family/096431829/publication/DE202025103015U1?q=202025103015">https://worldwide.espacenet.com/patent/search/family/096431829/publication/DE202025103015U1?q=202025103015</a>		
Germany	DE202025104967U1	Integriertes System zur stereoselektiven Synthese und Evaluierung chiraler Oxathiazolidin-2-oxide und Chlorphosphoramidite	An integrated system for stereoselective synthesis and biological evaluation of chiral oxathiazolidine-2-oxides and chlorophosphoramidites.
	<a href="https://worldwide.espacenet.com/patent/search?q=pn%3DDE202025104967U1">https://worldwide.espacenet.com/patent/search?q=pn%3DDE202025104967U1</a>		

**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 7<sup>th</sup> Annual Meeting, Alexandria, Egypt, December 28-29, 2011.
3. Supported by **The Academy of Science for the Developing World (TWAS)** to attend TWAS 22<sup>nd</sup> General Meeting, Trieste, Italy, November 21-23, 2011.
4. Supported by **ANDI** and the **United Nations Economic Commission for Africa (UNECA)** to attend the 4<sup>th</sup> 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 1<sup>st</sup> 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 3<sup>rd</sup> 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 2<sup>nd</sup> 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 12<sup>th</sup> General Conference, Hyderabad, India, October 19-22, 2010.

9. Fully supported by **WHO/TDR** to attend the 3<sup>rd</sup> 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 60<sup>th</sup> 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 60<sup>th</sup> 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 5<sup>th</sup> 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 11<sup>th</sup> 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 2<sup>nd</sup> 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 1<sup>st</sup> 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 $\beta$ -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. Agsam 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.	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 main collaborative research projects currently being conducted with distinguished international scientists:

<b>COLLABORATOR</b>	<b>PROJECT TITLE</b>
<b>Dr. Sean Prigge</b> Johns Hopkins SPH Baltimore MD <b>U. S. A.</b>	Discovery of natural plasmodium <i>falciparum</i> and toxoplasma <i>gondii</i> specific enoyl-ACP reductase inhibitors as antimalarial and antitoxoplasmosis candidates.
<b>Dr. Abdelhakim Bouyahya</b> Department of Biology, Mohammed V University, Rabat, <b>Morocco</b>	Integrative Drug Discovery from Medicinal Plants and Green Nanomaterials—Phytochemistry, Network Pharmacology and Mechanistic Validation
<b>Prof. Dr. M. Iqbal Choudhary</b> Dr. Panjwani Center for Molecular Medicine & Drug Research, University of Karachi <b>Pakistan</b>	Discovery of plasmodium <i>falciparum</i> specific enoyl-ACP reductase inhibitors from medicinal plants as antimalarial candidates.
<b>Dr. Ajmal Khan</b> Natural and Medical Sciences Research Center, University of Nizwa, <b>Oman</b>	Computationally Guided Discovery and Mechanistic Validation of Natural and Synthetic Small Molecules across Oncologic and Infectious Targets
<b>Prof. Dr. Antti Poso</b> Head of Department of Pharmaceutical Chemistry, University of Kuopio <b>Finland</b>	Designing of new enzyme inhibitors using molecular modeling and QSAR studies
<b>Prof. Dr. Leopold Flohé</b> Dept. of Chemistry Otto-von-Guericke University, Magdeburg, <b>Germany</b>	Discovery of enzyme-inhibiting antitrypanosomal agents from medicinal plants
<b>Dr. Maria Lerm</b> Faculty of Health Sciences, Linköping University, <b>Sweden</b>	Discovery of anti- tuberculosis agents using an innovative intramacrophage mycobacterium tuberculosis culture model
<b>Dr. Zaheer-ul-Haq Qasmi</b> Dr. Panjwani Center for Molecular Medicine & Drug Research , University of Karachi, <b>Pakistan</b>	Theoretical investigations of mechanism of cholinesterases inhibition by natural compounds using molecular dynamic simulation techniques.
<b>Prof. Maria Paola Costi</b> Drug Discovery and Biotechnology Lab University of Modena and Reggio Emilia Modena, <b>Italy</b>	New Medicines for Trypanosomatidic Infections

**POSTGRADUATE EXAMINATION:**

Prof. Asaad has 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 FT<sub>4</sub>, FT<sub>3</sub> 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:

- 2023- Global Burden of Disease (GBD) Study Senior Collaborator, Institute for Health Metrics and Evaluation (IHME), University of Washington
- 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- **1<sup>st</sup> 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- **5<sup>th</sup> 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- **4<sup>th</sup> 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- **1<sup>st</sup> 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- **3<sup>rd</sup> 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- **2<sup>nd</sup> 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- **1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> National Pakistan Proteomics Society Life Sciences- HEC Workshop" Karachi, Pakistan, February3-5, 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-COMSTEC (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. ATTENDED CONFERENCES, SEMINARS AND SYMPOSIA:

1. Participated, delivered an invited lecture and chaired session in the 1<sup>st</sup> 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 5<sup>th</sup> International Conference on Drug Discovery & Therapy, Dubai, UAE, Feb. 18-21, 2013.
3. Participated and delivered a lecture in the 4<sup>th</sup> 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 12<sup>th</sup> General Conference and 23<sup>rd</sup> 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) 7<sup>th</sup> Annual Meeting "Water, Nuclear and Renewable Energy: Challenges versus Opportunities", Alexandria, Egypt, Dec. 28-29, 2011.
10. Participated in TWAS 22<sup>nd</sup> General Meeting, Trieste, Italy, Nov. 21-23, 2011.
11. Participated and delivered a lecture in the 4<sup>th</sup> ANDI Stakeholders Meeting and Donor Conference, Addis Ababa, Ethiopia, Oct. 24 – 27, 2011.
12. Participated and organized a session in the 1<sup>st</sup> Arab-American Frontiers of Science, Engineering, and Medicine symposium, Kuwait, Oct. 17-19, 2011.
13. Participated and delivered a lecture the 3<sup>rd</sup> 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 17<sup>th</sup> Annual German-American Kavli Frontiers of Science Symposium, Irvine, California, USA, April 8-11, 2011.
15. Participated and delivered a lecture in the 12<sup>th</sup> International Symposium on Natural Products Chemistry (ISNPC-12), Karachi, Pakistan, Nov. 22 - 25, 2010.
16. Participated in the TWAS 21<sup>st</sup> General Meeting, Hyderabad, India, Oct. 19-22, 2010.
17. Participated in the 3<sup>rd</sup> 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 11<sup>th</sup> Eurasia Conference on Chemical Sciences (EuAsC2S-11) held at the Dead Sea-Jordan, during Oct. 6-10, 2010.
19. Participated (upon selection) in the 60<sup>th</sup> Lindau Nobel Laureate Meeting, Lindau, Germany June 27-July 2, 2010.
20. Participate and delivered a lecture in the 2<sup>nd</sup> 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 1<sup>st</sup> 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 5<sup>th</sup> 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) 11<sup>th</sup> General Conference, Durban, South Africa, Oct. 19-23, 2009.
27. Participated and delivered lecture in the Bright Ideas session of the 2<sup>nd</sup> 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 11<sup>th</sup> 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 8<sup>th</sup> 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 1<sup>st</sup> 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 9<sup>th</sup> International Symposium on Protein Structure Function Relationship, Karachi, Pakistan, Jan. 11-14, 2007
36. Participated and delivered lecture in the 10<sup>th</sup> International Symposium on Natural Product Chemistry, Karachi, Pakistan, Jan. 6-9, 2006.
37. Participated and delivered lecture in the 18<sup>th</sup> 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 8<sup>th</sup> 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 8<sup>th</sup> International Symposium on Protein Structure Function Relationship, Karachi, Pakistan, Jan. 7-10, 2005.
41. Participated in the 9<sup>th</sup> 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 7<sup>th</sup> Euroasia Conference on Chemical Sciences, Karachi, Pakistan, March 9-12, 2002.
45. Participated and delivered lecture in the 6<sup>th</sup> National Conference on Biochemistry and Molecular Biology, Khairpur, Pakistan, Feb. 15-17, 2001.
46. Participated in the 8<sup>th</sup> International Symposium on Natural Product Chemistry, Karachi, Pakistan, Jan. 18-21, 2000.
47. Participated in the 6<sup>th</sup> International Symposium on Protein Structure-Function Relationship, Karachi, Pakistan, Feb. 5-7, 1999.
48. Participated and delivered lecture and poster in the 9<sup>th</sup> National Chemistry Conference, Karachi, Pakistan, Dec. 4-6, 1998.
49. Participated in the 7<sup>th</sup> International Symposium on Natural Product Chemistry, Karachi, Pakistan, from Dec. 28, 1997 to Jan. 1, 1998.
50. Participated in the 5<sup>th</sup> International Symposium on Protein Structure-Function Relationship, Karachi, Pakistan, in Jan 6-9, 1997.

## RESEARCH METRICS

## Web of Science metrics

- H-Index : 28
- Total documents : 266
- Citations: 3,896
- CNCI: 2.41

## Scopus metrics

- H-Index : 31
- Documents : 211 (59.5% in Q1 journals)
- Citations : 5,527
- FWCI: 9.02

## PEER-REVIEWED ISI RESEARCH PUBLICATIONS

S. No.	Publication	IF/Rank
<b>2025</b>		
1.	Ali N, Qureshi U, Khalid A, Ul-Haq Z. Integrative strategies in drug discovery: Harnessing genomics, deep learning, and computer-aided drug design. Computational Biology and Chemistry. 2025;119:108530. doi:10.1016/j.compbiolchem.2025.108530.	3.1 Q1
2.	Farishta S, Faryal R, Waqas M, Ali M, Uppal R, Salman M, Ashraf Z, Khalid A, Khan A. Mechanisms of azithromycin resistance in Salmonella Typhi: molecular insights from dynamics behavior to clinical implications. Journal of Biomolecular Structure and Dynamics. 2025;. doi:10.1080/07391102.2025.2524407.	2.4 Q3
3.	Bakrim S, El Omari N, El Yaagoubi OM, Khalid A, Abdalla AN, Hamza SMA, Ibrahim SE, Atifi F, Zaid Y, Bouyahya A, El Fessikh M, Ming LC, Aanniz T. Epi-nutrients for cancer prevention: Molecular mechanisms and emerging insights. Cell Biology and Toxicology. 2025;41(1):116. doi:10.1007/s10565-025-10054-2.	5.9 Q1
4.	Khan M, Ullah A, Halim SA, Waqas M, Mushtaque A, Mulk S, Khan F, Gao L, Khalid A, Nizamani A, Kashtoh H, Khan A, Al-Harrasi A. Exploring tryptamine derivatives as potential agents for diabetes and cancer treatment: in-vitro kinetics, molecular docking, and cell toxicity based investigations. Journal of Biomolecular Structure and Dynamics. 2025;. doi:10.1080/07391102.2025.2513013.	2.4 Q3
5.	Mssillou I, El Abdali Y, Amrati FE-Z, Lim A, Khalid A, Makeen HA, Albratty M, Lefrioui Y, Louafi B, Bousta D. Unlocking the therapeutic potential of protocatechualdehyde: pharmacological applications and mechanism insights. Naunyn-Schmiedeberg's Archives of Pharmacology. 2025;. doi:10.1007/s00210-025-04267-9.	3.1 Q2
6.	Elhrech H, Aguerd O, El Fessikh M, Bakrim S, Khalid A, Abdalla AN, El Hamdani M, Kamli TE, Benali T, Akhazzane M, El Omari N, Bouyahya A. Determination of bioactive compounds and investigation of pharmacological properties of Cymbopogon flexuosus L. essential oils. Journal of Molecular Structure. 2025;1348:143576. doi:10.1016/j.molstruc.2025.143576.	4.7 Q2
7.	Mssillou I, Bakour M, Amrati FE-Z, Oraibi B, Elmobark ME, Khalid A. Syringaresinol: Exploring Its Natural Sources, Bioactivity, and Health Benefits. Chemistry and Biodiversity. 2025;. doi:10.1002/cbdv.202500352.	2.5 Q3
8.	Pari M, Sarwar R, Bukhari SM, Khan S, Riaz N, Khushal A, Almalki FA, Hadda TB, Farooq U, Khalid A, Kashtoh H, Khan A, Wani TA, Al-Harrasi A. 'Unlocking the potential of cefuroxime axetil metal complexes: a multifaceted approach to discovering $\beta$ -glucosidase inhibitors through MD simulations, POM analyses, and pharmacophore site identification'. Journal of Biomolecular Structure and Dynamics. 2025;. doi:10.1080/07391102.2025.2513572.	2.4 Q3

9. Rehman ZU, Alhazmi HA, Albratty M, Algaissi A, Makeen HA, Najmi A, Zoghebi K, Moni SS, Abdelwahab SI, Taha MME, Khalid A, Oraiby ME, Bokar IA. Structural insights into PKS13 Thioesterase inhibitors targeting Mycobacterium tuberculosis for drug-resistant tuberculosis therapy: Identification, stability assessment, and pharmacophore modeling. *Results in Chemistry*. 2025;16:102388. doi:10.1016/j.rechem.2025.102388. 4.2 Q2
10. Abdalla M, Elhassan G, Khalid A, Shafiq M, Tariq SS, Alsuwat MA, Elfatih F, Yagi S, Abdallah HH, Mahomoodally MF, Ul-Haq Z. In-vitro and in-silico exploration of glycogen phosphorylase inhibition by Aloe sinkatana anthraquinones. *Journal of Biomolecular Structure and Dynamics*. 2025;. doi:10.1080/07391102.2025.2524404. 2.4 Q3
11. Bibi R, Ali M, Latif A, Ullah S, Alam A, Ammara, Ahmad M, Khalid A, Khan A, Al-Harrasi A. New derivatives of paracetamol as potent  $\alpha$ -glucosidase inhibitors: synthesis, in vitro, and in silico studies. *Journal of Biomolecular Structure and Dynamics*. 2025;. doi:10.1080/07391102.2025.2502136. 2.4 Q3
12. Mehmood A, Hakami MA, Ogaly HA, Subramaniyan V, Khalid A, Wadood A. Evolution of computational techniques against various KRAS mutants in search for therapeutic drugs: a review article. *Cancer Chemotherapy And Pharmacology*. 2025;95(1):52. doi:10.1007/s00280-025-04767-8. 2.3 Q3
13. Muhammad G, Hussain MA, Shafiq Z, Ashraf A, Shafique U, Khan A, Khalid A, Hussain J, Al-Harrasi A. Pharmacological and Therapeutic Potential of Berbamine: A Potent Alkaloid from Genus *Berberis*. *Current Topics In Medicinal Chemistry*. 2025;25(8):891-920. doi:10.2174/0115680266289292240420062705. 3.3 Q3
14. Hassan A, Khan JA, Nasir F, Shabir H, Hannan PA, Ullah R, Jan AF, Khalid A, Khan A, Al-Harrasi A. Synthesis, Characterization, and Stability Optimization of Ibuprofen Cocrystals Employing Various Hydrophilic Polymers. *Current Pharmaceutical Design*. 2025;31(11):873-883. doi:10.2174/0113816128305926240530051853. 2.8 Q2
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